

ตารางที่ ค.1

ซูเปอร์เมตริกซ์ การตัดสินใจเลือกแนวความคิดในการออกแบบโครงการบ้านจัดสรรเขียวระดับกลาง กลุ่มผู้ประกอบการ

| 1 goal | | 2.1 Developer | | | | | 3 Alternatives | | | | | | | | | | | | | | | | | | | |
|----------------|---------------------------|---------------|----------|----------|----------|----------|----------------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|-----------|---|
| 1 goal | Goal | Goal | 2.1.1 Cc | 2.1.2 Gr | 2.1.3 En | 2.1.4 En | 3.01 Site | 3.02 Ecc | 3.03 lan | 3.04 roo | 3.05 wai | 3.06 win | 3.07 pas | 3.08 eff. | 3.09 eff. | 3.10 aut | 3.11 nat | 3.12 nat | 3.13 Sur | 3.14 PV | 3.15 Wa | 3.16 Wa | 3.17 Co | 3.18 Ecc | 3.19 Mar. | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.1 Developer | 2.1.1 Cost | 0.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.2 Green Image | 0.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.3 Energy Conservation | 0.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.4 Env Concern | 0.40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 Alternatives | 3.01 Siteplanning | 0 | 0.04 | 0.07 | 0.03 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.02 EcoResrv | 0 | 0.12 | 0.07 | 0.01 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.03 landscape | 0 | 0.08 | 0.07 | 0.03 | 0.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.04 roofheat | 0 | 0.03 | 0.07 | 0.16 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.05 wallheat | 0 | 0.03 | 0.07 | 0.12 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.06 windowheat | 0 | 0.03 | 0.07 | 0.23 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.07 passivecool | 0 | 0.08 | 0.07 | 0.09 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.08 eff. AC | 0 | 0.04 | 0.07 | 0.03 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.09 eff. light | 0 | 0.04 | 0.07 | 0.09 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.10 auto. light | 0 | 0.01 | 0.04 | 0.02 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.11 nat.vent | 0 | 0.08 | 0.07 | 0.03 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.12 nat. light | 0 | 0.12 | 0.07 | 0.02 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.13 SunHeatEnergy | 0 | 0.01 | 0.02 | 0.03 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.14 PV / Windturbine | 0 | 0.01 | 0.02 | 0.02 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.15 Water Consvr | 0 | 0.04 | 0.04 | 0.02 | 0.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.16 Water treatment | 0 | 0.08 | 0.07 | 0.01 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.17 Constr. Pollution | 0 | 0.08 | 0.04 | 0.01 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.18 Ecofriendly Mat | 0 | 0.04 | 0.04 | 0.01 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.19 Mat. recycle / reuse | 0 | 0.04 | 0.02 | 0.01 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ภาคผนวก ค.
 การคำนวณการตัดสินใจเลือกแนวความคิดในการออกแบบ
 โครงการบ้านจัดสรรเขียว ระดับกลาง

ตารางที่ ค.2

ลิมิตเมตริกซ์ การตัดสินใจเลือกแนวความคิดในการออกแบบโครงการบ้านจัดสรรเขียวระดับกลาง กลุ่มผู้ประกอบการ

| 1 goal | | 2.1 Developer | | | | | 3 Alternatives | | | | | | | | | | | | | | | | | | | |
|--------|---------------------------|---------------|----------|----------|----------|----------|----------------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|---------|---|
| 1 goal | Goal | Goal | 2.1.1 Cc | 2.1.2 Gr | 2.1.3 En | 2.1.4 En | 3.01 Site | 3.02 Ecc | 3.03 lan | 3.04 roo | 3.05 wal | 3.06 win | 3.07 pas | 3.08 eff. | 3.09 eff. | 3.10 aut | 3.11 nat | 3.12 nat | 3.13 Sur | 3.14 PV | 3.15 Wa | 3.16 Wa | 3.17 Co | 3.18 Ecc | 3.19 Ma | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.1 Cost | 0.10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.2 Green Image | 0.10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.3 Energy Conservation | 0.10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.4 Env Concern | 0.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.01 Sitepinning | 0.03 | 0.04 | 0.07 | 0.03 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.02 EcoResrv | 0.03 | 0.12 | 0.07 | 0.01 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.03 landscape | 0.06 | 0.08 | 0.07 | 0.03 | 0.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.04 roofheat | 0.03 | 0.03 | 0.07 | 0.16 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.05 wallheat | 0.02 | 0.03 | 0.07 | 0.12 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.06 windowheat | 0.03 | 0.03 | 0.07 | 0.23 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.07 passivecool | 0.03 | 0.08 | 0.07 | 0.09 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.08 eff. A/C | 0.02 | 0.04 | 0.07 | 0.03 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.09 eff. light | 0.02 | 0.04 | 0.07 | 0.09 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.10 auto. light | 0.01 | 0.01 | 0.04 | 0.02 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.11 nat.vent | 0.02 | 0.08 | 0.07 | 0.03 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.12 nat. light | 0.03 | 0.12 | 0.07 | 0.02 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.13 SunHeatEnergy | 0.01 | 0.01 | 0.02 | 0.03 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.14 PV / Windturbine | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.15 Water Consvr | 0.05 | 0.04 | 0.04 | 0.02 | 0.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.16 Water treatment | 0.03 | 0.08 | 0.07 | 0.01 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.17 Constr. Pollution | 0.02 | 0.08 | 0.04 | 0.01 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.18 Ecofriendly Mat | 0.02 | 0.04 | 0.04 | 0.01 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.19 Mat. recycle / reuse | 0.02 | 0.04 | 0.02 | 0.01 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ตารางที่ ค.3

ซูเปอร์เมตริกซ์ การตัดสินใจเลือกแนวความคิดในการออกแบบโครงการบ้านจัดสรรเขียวระดับกลาง กลุ่มลูกค้า ผู้อยู่อาศัย

| 1 goal | | 2.1 Developer | | | | | 3 Alternatives | | | | | | | | | | | | | | | | | | | |
|--------|---------------------------|---------------|----------|----------|----------|----------|----------------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|---------|---|
| 1 goal | Goal | Goal | 2.1.1 Cc | 2.1.2 Gr | 2.1.3 En | 2.1.4 En | 3.01 Site | 3.02 Ecc | 3.03 lan | 3.04 roo | 3.05 wal | 3.06 win | 3.07 pas | 3.08 eff. | 3.09 eff. | 3.10 aut | 3.11 nat | 3.12 nat | 3.13 Sur | 3.14 PV | 3.15 Wa | 3.16 Wa | 3.17 Co | 3.18 Ecc | 3.19 Ma | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.1 Cost | 0.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.2 Green Image | 0.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.3 Energy Conservation | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.4 Env Concern | 0.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.01 Siteplanning | 0 | 0.04 | 0.07 | 0.05 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.02 EcoResrv | 0 | 0.12 | 0.07 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.03 landscape | 0 | 0.08 | 0.07 | 0.05 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.04 roofheat | 0 | 0.03 | 0.07 | 0.15 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.05 wallheat | 0 | 0.03 | 0.07 | 0.13 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.06 windowheat | 0 | 0.03 | 0.07 | 0.18 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.07 passivecool | 0 | 0.08 | 0.07 | 0.11 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.08 eff. A/C | 0 | 0.04 | 0.07 | 0.05 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.09 eff. light | 0 | 0.04 | 0.07 | 0.11 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.10 auto. light | 0 | 0.01 | 0.04 | 0.01 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.11 nat.vent | 0 | 0.08 | 0.07 | 0.05 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.12 nat. light | 0 | 0.12 | 0.07 | 0.03 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.13 SunHeatEnergy | 0 | 0.01 | 0.02 | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.14 PV / Windturbine | 0 | 0.01 | 0.02 | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.15 Water Consvr | 0 | 0.04 | 0.04 | 0.03 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.16 Water treatment | 0 | 0.08 | 0.07 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.17 Constr. Pollution | 0 | 0.08 | 0.04 | 0.00 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.18 Ecofriendly Mat | 0 | 0.04 | 0.04 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.19 Mat. recycle / reuse | 0 | 0.04 | 0.02 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ตารางที่ ค.4

ลิมิตเมตริกซ์ การตัดสินใจเลือกแนวความคิดในการออกแบบโครงการบ้านจัดสรรเขียวระดับกลาง กลุ่มลูกค้า ผู้อยู่อาศัย

| 1 goal | | 2.1 Developer | | | | | 3 Alternatives | | | | | | | | | | | | | | | | | | | |
|--------|---------------------------|---------------|----------|----------|----------|----------|----------------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|---------|---|
| 1 goal | Goal | Goal | 2.1.1 Cc | 2.1.2 Gr | 2.1.3 En | 2.1.4 En | 3.01 Site | 3.02 Ecc | 3.03 lan | 3.04 roo | 3.05 wal | 3.06 win | 3.07 pas | 3.08 eff. | 3.09 eff. | 3.10 aut | 3.11 nat | 3.12 nat | 3.13 Sur | 3.14 PV | 3.15 Wa | 3.16 Wa | 3.17 Co | 3.18 Ecc | 3.19 Ma | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.1 Cost | 0.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.2 Green Image | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.3 Energy Conservation | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.4 Env Concern | 0.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.01 Sitepinning | 0.03 | 0.04 | 0.07 | 0.05 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.02 EcoResrv | 0.04 | 0.12 | 0.07 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.03 landscape | 0.04 | 0.08 | 0.07 | 0.05 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.04 roofheat | 0.03 | 0.03 | 0.07 | 0.15 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.05 wallheat | 0.03 | 0.03 | 0.07 | 0.13 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.06 windowheat | 0.03 | 0.03 | 0.07 | 0.18 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.07 passivecool | 0.03 | 0.08 | 0.07 | 0.11 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.08 eff. A/C | 0.02 | 0.04 | 0.07 | 0.05 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.09 eff. light | 0.03 | 0.04 | 0.07 | 0.11 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.10 auto. light | 0.01 | 0.01 | 0.04 | 0.01 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.11 nat.vent | 0.02 | 0.08 | 0.07 | 0.05 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.12 nat. light | 0.04 | 0.12 | 0.07 | 0.03 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.13 SunHeatEnergy | 0.01 | 0.01 | 0.02 | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.14 PV / Windturbine | 0.01 | 0.01 | 0.02 | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.15 Water Consvr | 0.03 | 0.04 | 0.04 | 0.03 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.16 Water treatment | 0.03 | 0.08 | 0.07 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.17 Constr. Pollution | 0.02 | 0.08 | 0.04 | 0.00 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.18 Ecofriendly Mat | 0.02 | 0.04 | 0.04 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.19 Mat. recycle / reuse | 0.02 | 0.04 | 0.02 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ตารางที่ ค.5

ซูเปอร์เมตริกซ์ การตัดสินใจเลือกแนวความคิดในการออกแบบโครงการบ้านจัดสรรเขียวระดับกลาง กลุ่มชุมชนใกล้เคียง

| 1 goal | | 2.3 Local Community | 3 Alternatives | | | | | | | | | | | | | | | | | | |
|---------------------|---------------------------|---------------------|----------------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|-----------|
| Goal | Goal | 2.3.1 Soc | 3.01 Site | 3.02 Ecr | 3.03 lan | 3.04 roc | 3.05 wal | 3.06 win | 3.07 pas | 3.08 eff. | 3.09 eff. | 3.10 aut | 3.11 nat | 3.12 nat | 3.13 Sur | 3.14 PV | 3.15 Wa | 3.16 Wa | 3.17 Co | 3.18 Ecr | 3.19 Mat. |
| 1 goal | Goal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.3 Local Community | 2.3.1 Soc concern | 1.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.01 Siteplanning | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.02 EcoResrv | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.03 landscape | 0 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.04 roofheat | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.05 wallheat | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.06 windowheat | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.07 passivecool | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.08 eff. A/C | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.09 eff. light | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 Alternatives | 3.10 auto. light | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.11 nat.vent | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.12 nat. light | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.13 SunHeatEnergy | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.14 PV / Windturbine | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.15 Water Consv | 0 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.16 Water treatment | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.17 Constr. Pollution | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.18 Ecofriendly Mat | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.19 Mat. recycle / reuse | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ตารางที่ ค.6

ลิมิตเมตริกซ์ การตัดสินใจเลือกแนวความคิดในการออกแบบโครงการบ้านจัดสรรเขียวระดับกลาง กลุ่มชุมชนใกล้เคียง

| 1 goal | Goal | 1 goal | 3 Alternatives | | | | | | | | | | | | | | | | | | | |
|---------------------|---------------------------|--------|---------------------|-------------------|---------------|----------------|---------------|---------------|-----------------|------------------|---------------|-----------------|------------------|---------------|-----------------|--------------------|-----------------------|-------------------|----------------------|------------------------|----------------------|---------------------------|
| | | Goal | 2.3 Local Community | 3.01 Siteplanning | 3.02 EcoResrv | 3.03 landscape | 3.04 roofheat | 3.05 wallheat | 3.06 windowheat | 3.07 passivecool | 3.08 eff. A/C | 3.09 eff. light | 3.10 auto. light | 3.11 nat.vent | 3.12 nat. light | 3.13 SunHeatEnergy | 3.14 PV / Windturbine | 3.15 Water Consrv | 3.16 Water treatment | 3.17 Constr. Pollution | 3.18 Ecofriendly Mat | 3.19 Mat. recycle / reuse |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.3 Local Community | 2.3.1 Soc concern | 0.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.01 Siteplanning | 0.04 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.02 EcoResrv | 0.04 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.03 landscape | 0.08 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.04 roofheat | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.05 wallheat | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.06 windowheat | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.07 passivecool | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.08 eff. A/C | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.09 eff. light | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 Alternatives | 3.10 auto. light | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.11 nat.vent | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.12 nat. light | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.13 SunHeatEnergy | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.14 PV / Windturbine | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.15 Water Consrv | 0.08 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.16 Water treatment | 0.04 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.17 Constr. Pollution | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.18 Ecofriendly Mat | 0.04 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.19 Mat. recycle / reuse | 0.04 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ตารางที่ ค.7

ซูเปอร์เมตริกซ์ การตัดสินใจเลือกแนวความคิดในการออกแบบโครงการบ้านจัดสรรเขียวระดับกลาง กลุ่มสิ่งแวดล้อมธรรมชาติ

| 0 goal | | 3 Alternatives | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---------------------------|----------------|--------|----------|-----------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|---------|
| 0 goal | Goal | Goal | 2.4 En | 2.4.2 En | 3.01 Site | 3.02 Ecc | 3.03 lan | 3.04 roc | 3.05 wal | 3.06 win | 3.07 pas | 3.08 eff. | 3.09 eff. | 3.10 aut | 3.11 nat | 3.12 nat | 3.13 Sur | 3.14 PV | 3.15 Wa | 3.16 Wa | 3.17 Co | 3.18 Ecc | 3.19 Ma |
| 0 goal | Goal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.4 Environment | 2.4.1 Energy Conservation | 0.75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.4.2 Env Concern | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 Alternatives | 3.01 Siteplnning | 0 | 0.05 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.02 EcoResrv | 0 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.03 landscape | 0 | 0.05 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.04 roofheat | 0 | 0.15 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.05 wallheat | 0 | 0.13 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.06 windowheat | 0 | 0.18 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.07 passivecool | 0 | 0.11 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.08 eff. A/C | 0 | 0.05 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.09 eff. light | 0 | 0.11 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.10 auto. light | 0 | 0.01 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.11 nat.vent | 0 | 0.05 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.12 nat. light | 0 | 0.03 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.13 SunHeatEnergy | 0 | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.14 PV / Windturbine | 0 | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.15 Water Consvr | 0 | 0.03 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.16 Water treatment | 0 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.17 Constr. Pollution | 0 | 0.00 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.18 Ecofriendly Mat | 0 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.19 Mat. recycle / reuse | 0 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ตารางที่ ค.8

ลิมิตเมตริกซ์ การตัดสินใจเลือกแนวความคิดในการออกแบบโครงการบ้านจัดสรรเขียวระดับกลาง กลุ่มสิ่งแวดล้อมธรรมชาติ

| 0 goal | | 2.4 Environment | | 3 Alternatives | | | | | | | | | | | | | | | | | | | | |
|-----------------|---------------------------|-----------------|----------|----------------|-----------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|---------|---|
| 0 goal | Goal | Goal | 2.4.1 En | 2.4.2 En | 3.01 Site | 3.02 Ecc | 3.03 lan | 3.04 roc | 3.05 wal | 3.06 win | 3.07 pas | 3.08 eff. | 3.09 eff. | 3.10 aut | 3.11 nat | 3.12 nat | 3.13 Sur | 3.14 PV | 3.15 Wa | 3.16 Wa | 3.17 Co | 3.18 Ecc | 3.19 Ma | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.4 Environment | 2.4.1 Energy Conservation | 0.38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.4.2 Env Concern | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.01 Siteplnning | 0.03 | 0.05 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.02 EcoResrv | 0.01 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.03 landscape | 0.04 | 0.05 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.04 roofheat | 0.06 | 0.15 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.05 wallheat | 0.05 | 0.13 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.06 windowheat | 0.07 | 0.18 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.07 passivecool | 0.05 | 0.11 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.08 eff. A/C | 0.02 | 0.05 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.09 eff. light | 0.04 | 0.11 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 Alternatives | 3.10 auto. light | 0.00 | 0.01 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.11 nat.vent | 0.02 | 0.05 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.12 nat. light | 0.02 | 0.03 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.13 SunHeatEnergy | 0.01 | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.14 PV / Windturbine | 0.01 | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.15 Water Consv | 0.03 | 0.03 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.16 Water treatment | 0.01 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.17 Constr. Pollution | 0.01 | 0.00 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.18 Ecofriendly Mat | 0.01 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.19 Mat. recycle / reuse | 0.01 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ตารางที่ ค.10

ลิมิตเมตริกซ์ การตัดสินใจเลือกแนวความคิดในการออกแบบโครงการบ้านจัดสรรเขียวระดับกลาง ผู้มีส่วนได้ส่วนเสียหลัก 4 กลุ่ม

| 0 goal | | 1 Main Criteria | | | | 2.1 Developer | | | | 2.2 Customer | | | | 2.3 Loc: 2.4 Environment | | | | 3 Alternatives | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------------|-----------------|---------|---------|---------|---------------|----------|----------|----------|--------------|----------|----------|----------|--------------------------|----------|----------|-----------|----------------|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|-----------|---|---|---|---|
| Goal | Goal | 1.1 Dew | 1.2 Cus | 1.3 Loc | 1.4 Env | 2.1.1 Co | 2.1.2 Gr | 2.1.3 En | 2.1.4 En | 2.2.1 Pri | 2.2.2 Gr | 2.2.3 En | 2.2.4 En | 2.3.1 So | 2.4.1 En | 2.4.2 En | 3.01 Site | 3.02 Ecc | 3.03 lan | 3.04 roo | 3.05 wal | 3.06 win | 3.07 pas | 3.08 eff. | 3.09 eff. | 3.10 aut | 3.11 nat | 3.12 nat | 3.13 Sur | 3.14 PV | 3.15 Wa | 3.16 Wa | 3.17 Co | 3.18 Ecc | 3.19 Mat. | | | | |
| 0 goal | Goal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 1 Main Criteria | 1.1 Developer | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 1.2 Customer | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1.3 Local Community | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1.4 Environment | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2.1 Developer | 2.1.1 Cost | 0.02 | 0.10 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2.1.2 Green Image | 0.02 | 0.10 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2.1.3 Energy Conservation | 0.02 | 0.10 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2.1.4 Env Concern | 0.03 | 0.20 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.2 Customer | 2.2.1 Price | 0.03 | 0.00 | 0.17 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2.2.2 Green Image | 0.01 | 0.00 | 0.08 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2.2.3 Energy Conservation | 0.02 | 0.00 | 0.13 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2.3 Local Community | 2.2.4 Env Concern | 0.02 | 0.00 | 0.12 | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2.3.1 Soc concern | 0.08 | 0.00 | 0.00 | 0.50 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2.4 Environment | 2.4.1 Energy Conservation | 0.06 | 0.00 | 0.00 | 0.00 | 0.38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2.4.2 Env Concern | 0.02 | 0.00 | 0.00 | 0.00 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3 Alternatives | 3.01 Sitepinning | 0.02 | 0.03 | 0.03 | 0.04 | 0.03 | 0.04 | 0.07 | 0.05 | 0.08 | 0.04 | 0.07 | 0.05 | 0.08 | 0.08 | 0.05 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3.02 EcoResrv | 0.02 | 0.03 | 0.04 | 0.04 | 0.01 | 0.12 | 0.07 | 0.00 | 0.08 | 0.12 | 0.07 | 0.00 | 0.08 | 0.08 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.03 landscape | 0.04 | 0.05 | 0.04 | 0.08 | 0.04 | 0.08 | 0.07 | 0.05 | 0.16 | 0.08 | 0.07 | 0.05 | 0.16 | 0.16 | 0.05 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.04 roofheat | 0.02 | 0.02 | 0.03 | 0.00 | 0.06 | 0.03 | 0.07 | 0.15 | 0.00 | 0.03 | 0.07 | 0.15 | 0.04 | 0.00 | 0.15 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.05 wallheat | 0.02 | 0.02 | 0.03 | 0.00 | 0.05 | 0.03 | 0.07 | 0.13 | 0.00 | 0.03 | 0.07 | 0.13 | 0.00 | 0.00 | 0.13 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.06 windowheat | 0.02 | 0.03 | 0.03 | 0.00 | 0.07 | 0.03 | 0.07 | 0.18 | 0.00 | 0.03 | 0.07 | 0.18 | 0.00 | 0.00 | 0.18 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.07 passivecool | 0.02 | 0.03 | 0.03 | 0.02 | 0.05 | 0.08 | 0.07 | 0.11 | 0.04 | 0.08 | 0.07 | 0.11 | 0.00 | 0.04 | 0.11 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.08 eff. A/C | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.04 | 0.07 | 0.05 | 0.04 | 0.04 | 0.07 | 0.05 | 0.04 | 0.04 | 0.05 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.09 eff. light | 0.02 | 0.02 | 0.03 | 0.00 | 0.04 | 0.04 | 0.07 | 0.11 | 0.00 | 0.04 | 0.07 | 0.11 | 0.04 | 0.00 | 0.11 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.10 auto. light | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.04 | 0.01 | 0.00 | 0.01 | 0.04 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.11 nat.vent | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.08 | 0.07 | 0.05 | 0.04 | 0.08 | 0.07 | 0.05 | 0.00 | 0.04 | 0.05 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.12 nat. light | 0.02 | 0.03 | 0.04 | 0.02 | 0.02 | 0.12 | 0.07 | 0.03 | 0.04 | 0.12 | 0.07 | 0.03 | 0.04 | 0.04 | 0.03 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.13 SunHeatEnergy | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.02 | 0.02 | 0.04 | 0.01 | 0.02 | 0.02 | 0.04 | 0.04 | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.14 PV / Windturbine | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.02 | 0.02 | 0.04 | 0.01 | 0.02 | 0.02 | 0.04 | 0.04 | 0.02 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.15 Water Consv | 0.03 | 0.04 | 0.03 | 0.08 | 0.03 | 0.04 | 0.04 | 0.03 | 0.16 | 0.04 | 0.04 | 0.03 | 0.16 | 0.16 | 0.03 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.16 Water treatment | 0.02 | 0.03 | 0.03 | 0.04 | 0.01 | 0.08 | 0.07 | 0.00 | 0.08 | 0.08 | 0.07 | 0.00 | 0.08 | 0.08 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.17 Constr. Pollution | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 | 0.08 | 0.04 | 0.00 | 0.04 | 0.08 | 0.04 | 0.00 | 0.04 | 0.04 | 0.00 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3.18 Ecofriendly Mat | 0.02 | 0.02 | 0.02 | 0.04 | 0.01 | 0.04 | 0.04 | 0.00 | 0.08 | 0.04 | 0.04 | 0.00 | 0.08 | 0.08 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3.19 Mat. recycle / reuse | 0.02 | 0.02 | 0.02 | 0.04 | 0.01 | 0.04 | 0.02 | 0.00 | 0.08 | 0.04 | 0.02 | 0.00 | 0.08 | 0.08 | 0.00 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |