



Ecopuncture

perspectives from
a green building design consultant

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It starts with a
VISION

Case Study: PARAMIT – factory in the forest (Malaysia)

- Client/ Owner: PARAMIT
- Architecture Firm: DESIGN UNIT ARCHITECTS SDN BHD
- Green Building Design : IEN CONSULTANTS
- Engineering & Construction: WEB STRUCTURES SDN BHD
- Mechanical & Electrical Engineer: PERUNDING EAGLES ENGINEERS SDN BHD
- Project Management: JLL SDN BHD
- Main Contractor: SOUTH ISLAND BUILDING SDN BHD
- Photography: LIN HO PHOTOGRAPHY



Client wanted

- Energy Efficient Building with Low Operating Costs
- Healthy, Sustainable & High-Performance Building
- Environmental Showpiece Factory for others to follow

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PROCESS

Client Wanted

- *Energy Efficient Building with Low Operating Costs*
- *Healthy, Sustainable & High-Performance Building*
- *Environmental Showpiece Factory for other to follow*



Engaged first



*Invited architects for
design competition*



Architect 1

Small company



Design Unit
Sdn Bhd
1290130-K

winner

Architect 2

Medium company

Architect 3

Large company

How do the Ecopuncture principles apply to the Paramit factory project?

ecopuncture

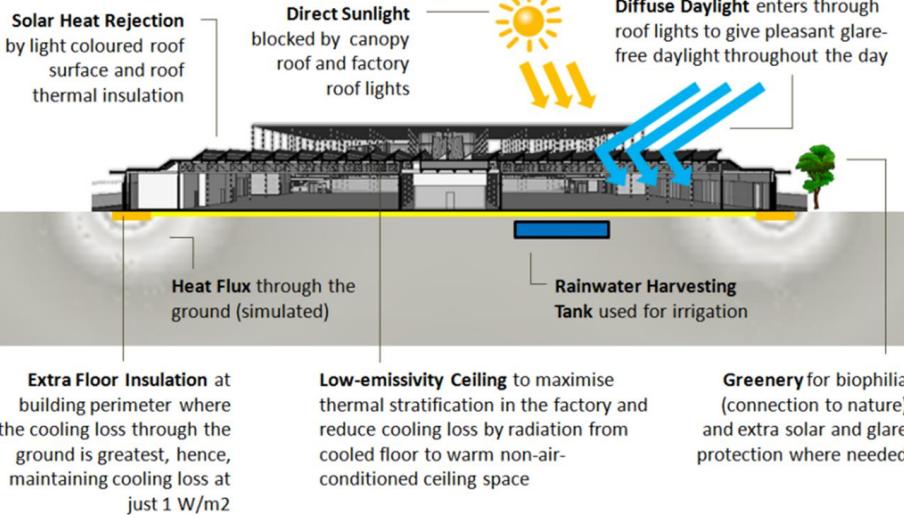
- 1 __ acts of design that create a surplus of life-sustaining resources and capitals
- 2 __ regeneration of lost or degraded ecosystems, human-made and natural
- 3 __ a whole-systems approach that seeks connectedness and reciprocity

Ecopuncture principle #1

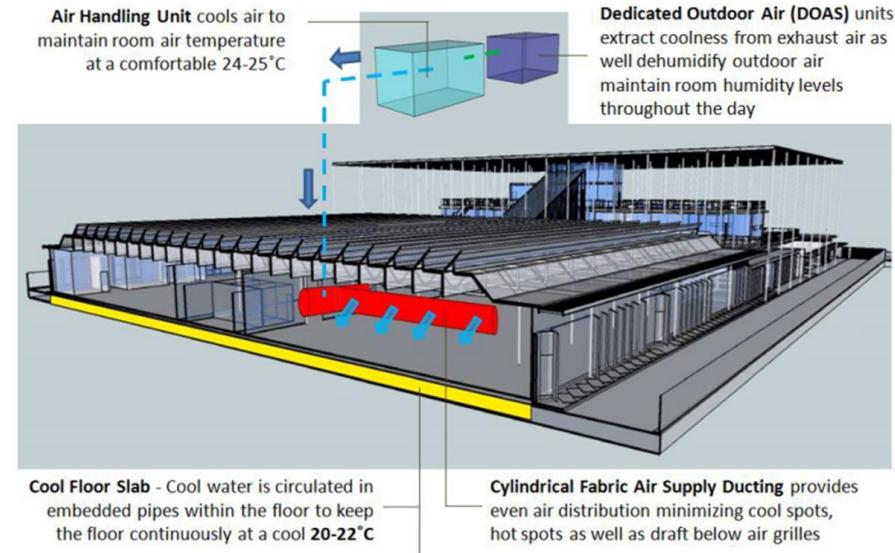
Acts of design that create
a surplus of life-sustaining resources and capitals

40% Measured Energy Savings

Passive Design



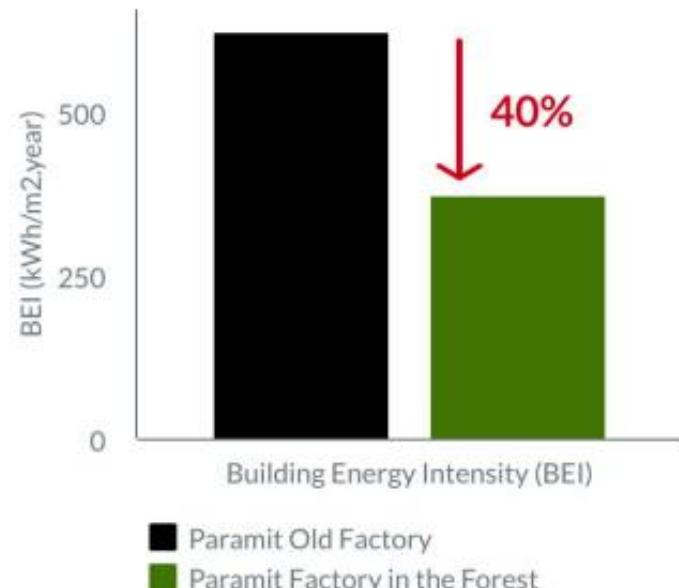
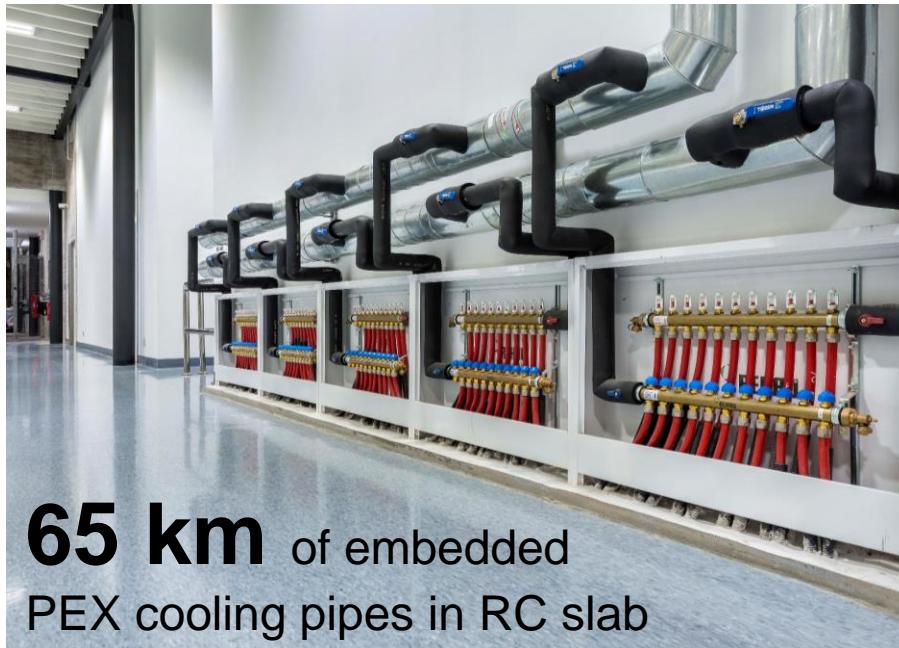
Active Design



Ecopuncture principle #1

Acts of design that create
a surplus of life-sustaining resources and capitals

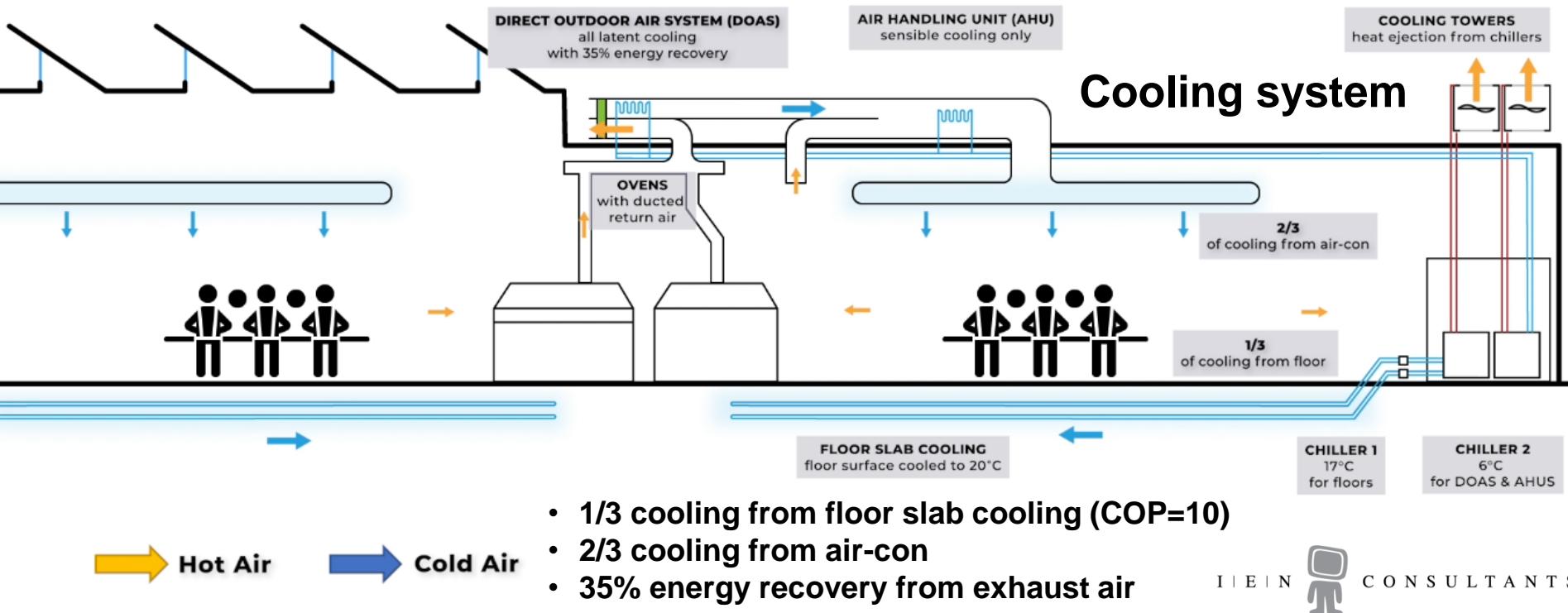
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Ecopuncture principle #1

Acts of design that create
a surplus of life-sustaining resources and capitals

40% Measured Energy Savings

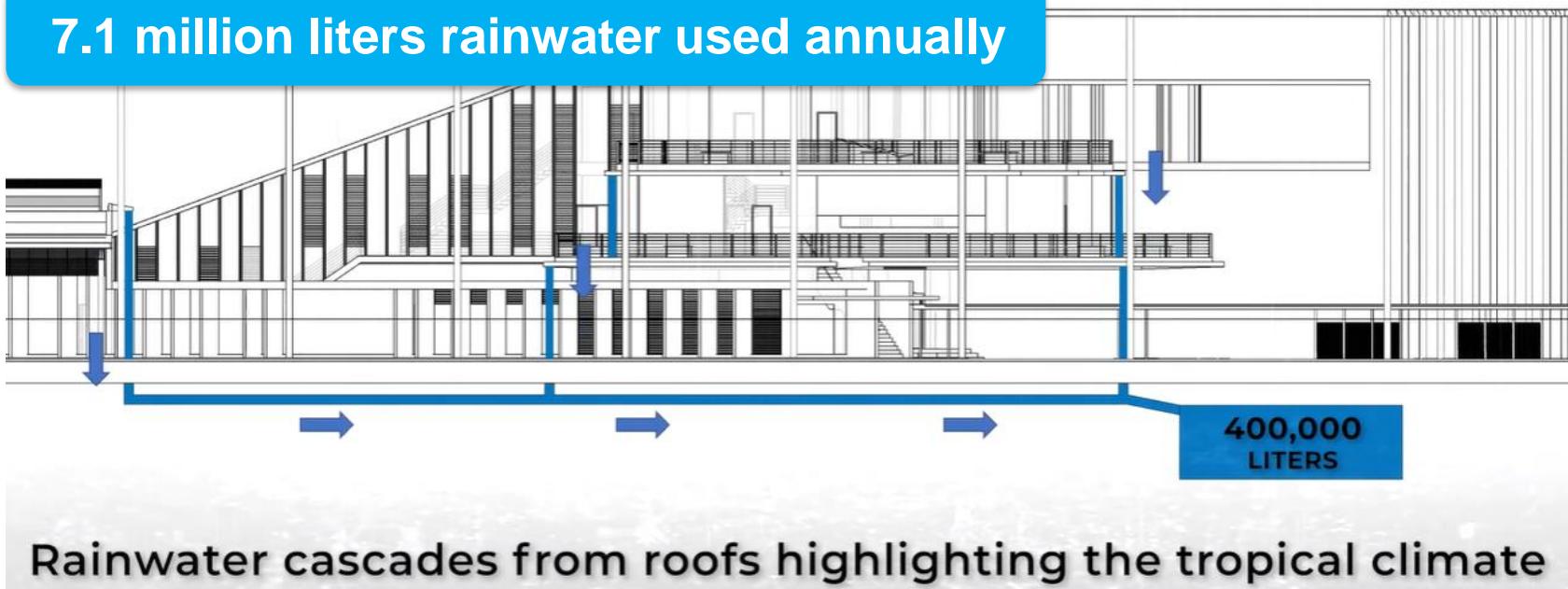


Ecopuncture principle #1

Acts of design that create
a surplus of life-sustaining resources and capitals



7.1 million liters rainwater used annually



Ecopuncture principle #2

Regeneration of lost or degraded ecosystems,
human-made and natural



Before



After

Ecopuncture principle #2

Regeneration of lost or degraded ecosystems,
human-made and natural



Courtyard / cafe

Ecopuncture principle #2

Regeneration of lost or degraded ecosystems,
human-made and natural



Ecopuncture principle #2

Regeneration of lost or degraded ecosystems,
human-made and natural



Ecopuncture principle #2

Regeneration of lost or degraded ecosystems,
human-made and natural



Ecopuncture principle #3

A whole-systems approach
that seeks connectedness and reciprocity



- Most spaces are daylit
- All spaces have view to Nature

Ecopuncture principle #3

A whole-systems approach
that seeks connectedness and reciprocity



**90% of Occupants
prefer the New Factory to the Old Factory**

Some of the 144 replies to anonymous occupant survey
"What do you like about the building?"

- 1) Its the best place i worked.. The greenery around the factory is simply amazing.. It give us a peaceful feeling..
- 2) Very green, light and healthy
- 3) Give a balance and serene feel (able to reduce stress). Work place = 2nd HOME
- 4) I like the environment of this building that have been surround by tress. Comfortable. Outstanding from others building.
- 5) The beauty of the natural, de-stress while working

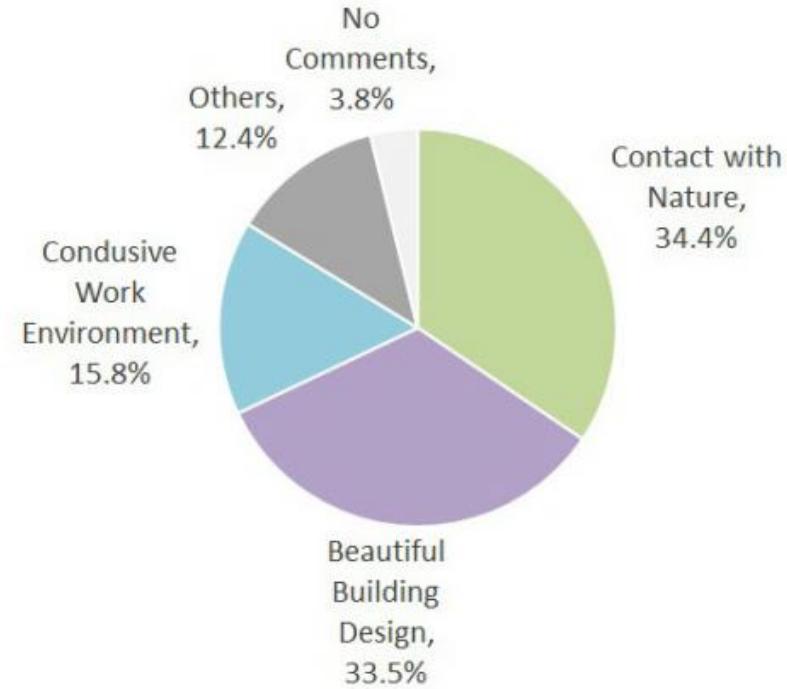
Ecopuncture principle #3

A whole-systems approach
that seeks connectedness and reciprocity

Results of 144 replies to
anonymous post occupant survey



"What do you like about the building?"



IN SUMMARY

Did the Client get what he wanted?

1. Energy Efficient Building with Low Operating Costs **[YES]**
2. Healthy, Sustainable & High-Performance Building **[YES]**
3. Environmental Showpiece Factory for others to follow **[HOPEFULLY]**

Were the Ecopuncture principles adhered to?

Yes, to a fair extent



Play video: <https://youtu.be/CZQBWhMEf50>

More inspiration here:
3-minute VIDEO, Paramit Design Features Video

Award Winning

1. RIBA International List 2018, aka "Best New Building in the World"
2. Winner : Best of Category Commercial. A&D Trophy Awards 2019
3. Winner : ABB LEAF AWARD Winner: Commercial Building of the Year 2017
4. Nominated for Aga Khan Award for Architecture
5. Runner Up: National Energy Award, Energy Efficiency Category
6. Winner : FUTURARC Green Leadership Award 2018. Commercial
7. ASEAN Energy Awards 2019, 1st Runner-Up



Thank you

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