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بتمويل من الاتحاد الأوروبي



Accelerating 0-emission building sector ambitions in the MENA region

Towards Net-Zero Communities

Venue: The Small Ville Hotel – 2nd of March 2023
Presented by Dr. Eng. Riad Assaf

Net-Zero Community





**GREEN BUILDING
RATING SYSTEM**

Net-Zero Energy Community



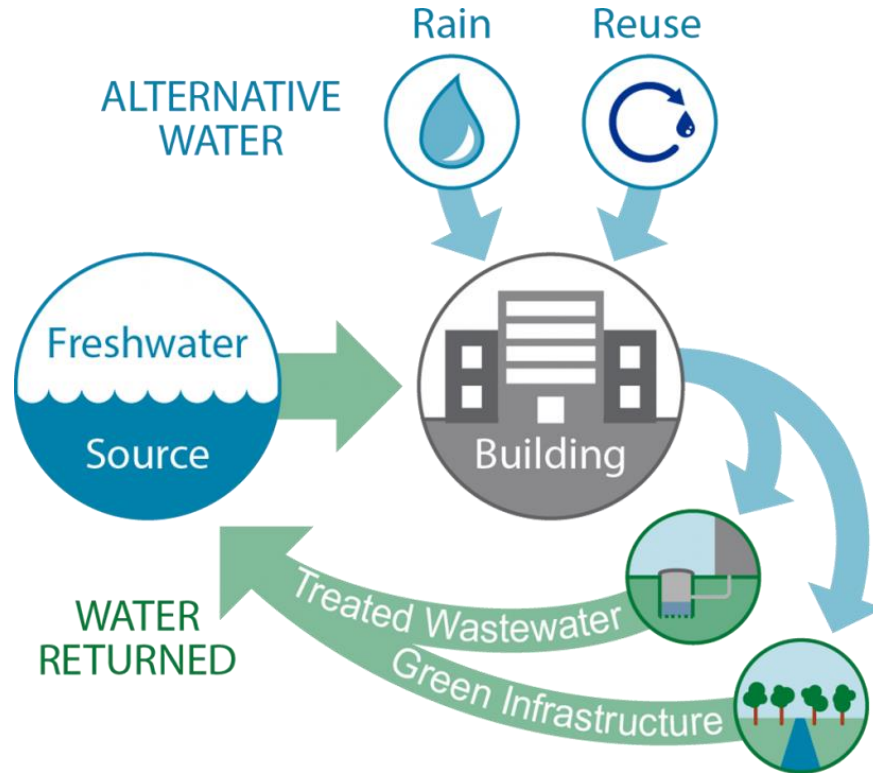
Net-Zero Carbon Community



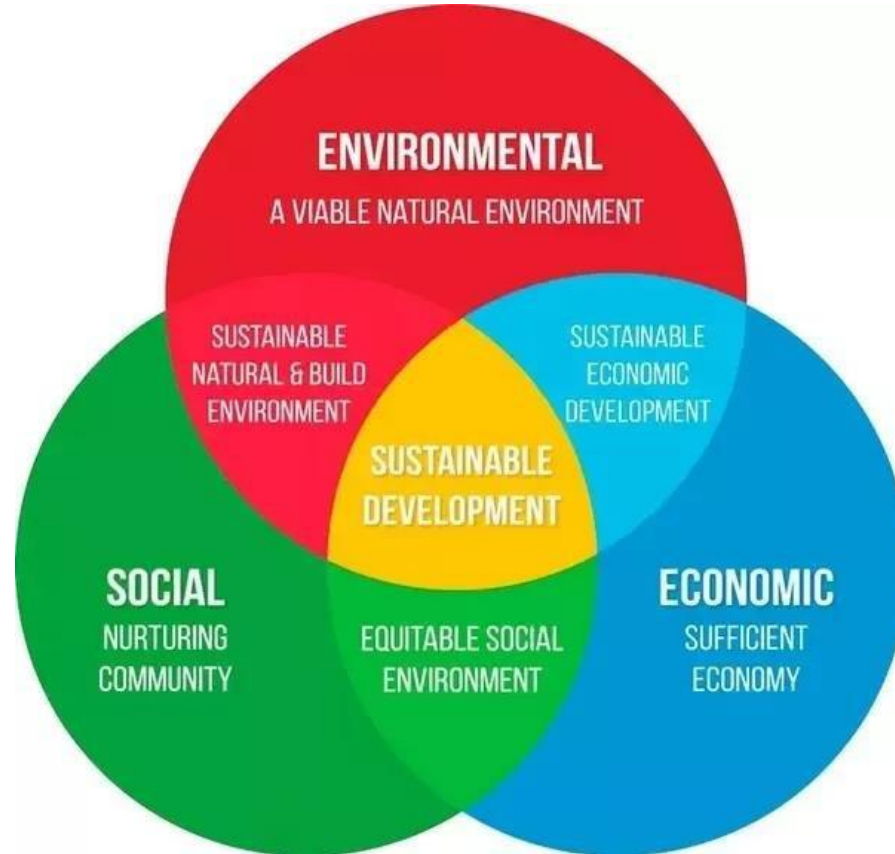
Net-Zero Waste Community



Net-Zero Water Community



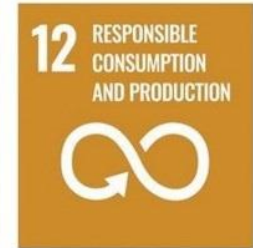
Sustainable Development Pillars



Sustainable Development Goals



Sustainable Development Goals



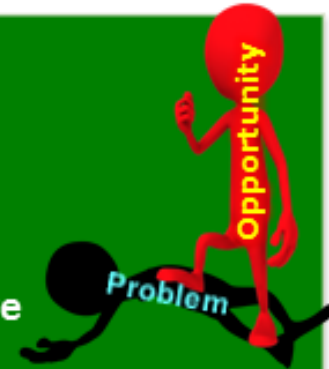
Lebanon Crisis



Turn Problems to Opportunities

Six Powerful Tips

- 1 Start to **believe** you can
- 2 Don't focus on the problems, focus on finding **opportunities**
- 3 Think of **what** it is you want to achieve
- 4 Think about **how** you can accomplish your goal
- 5 Take **different** views of the situation
- 6 Make it a **habit**; see every problem as an opportunity



ARZ 2.0 GBRS What for?

1: **Quantifies** online the performance of buildings

2: **Offers** bankable reports

3: **Enhances** the CSR (Corporate Social Responsibility) of a business

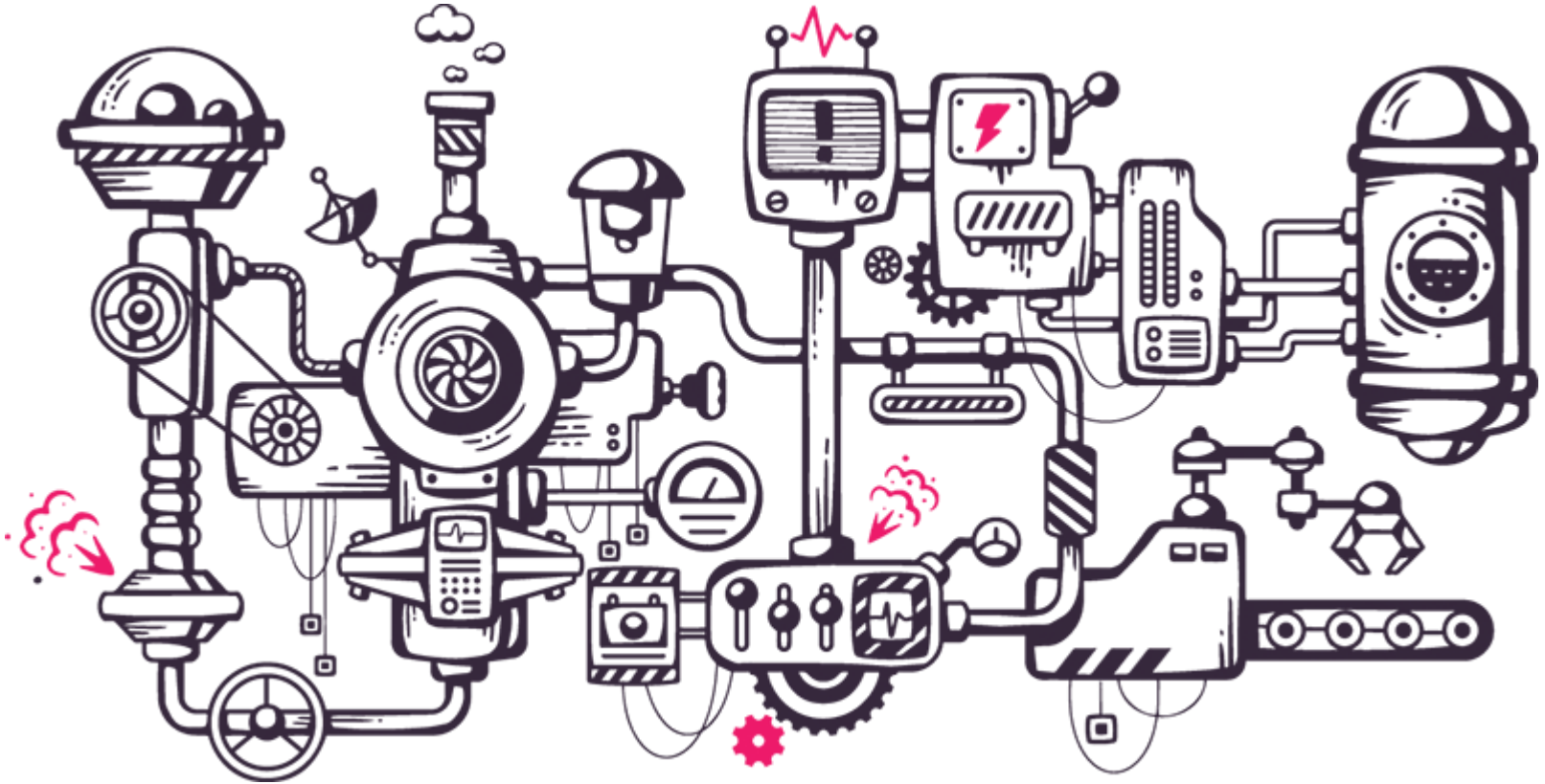
ARZ 2.0 GBRS What for?

4: A friendly **guide** for the Architects and Engineers

5: A **one-stop source** for Arch. and Eng. Students

6: Acts as a TPA (**Third Party Assessor**) for a fair and impartial building project evaluation

Is it Complex ?





**GREEN BUILDING
RATING SYSTEM**

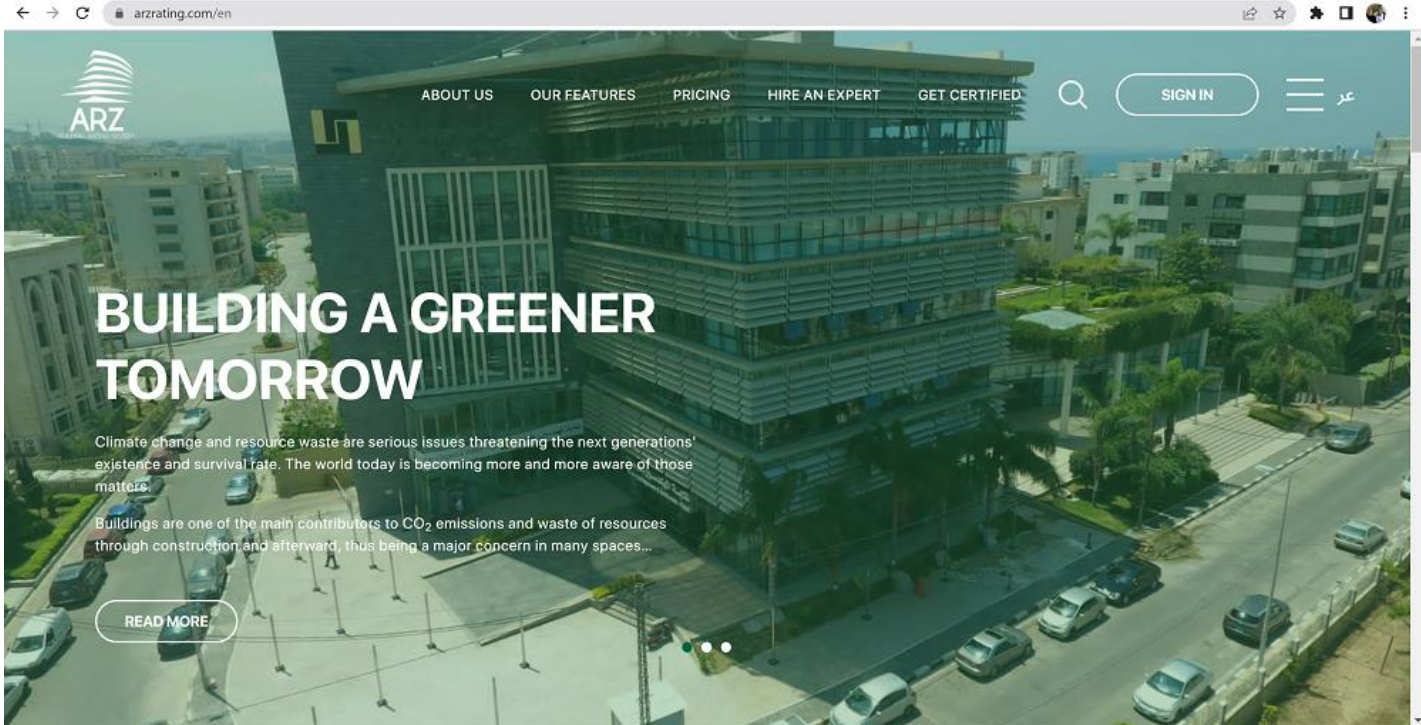
This is how we do it



This is how we do it



GREEN BUILDING RATING SYSTEM





GREEN BUILDING RATING SYSTEM

← → ↻ arzrating.com/ar


EN  تسجيل الدخول  الحصول على شهادة [وظف خبيرًا](#) [التسعير](#) [ميزاننا](#) [معلومات عنا](#) 

بناء غد صديق للبيئة

إن تغير المناخ ونفايات الموارد من القضايا الخطيرة التي تهدد وجود الأجيال المقبلة ومعدل بقائها، عالم اليوم يصبح أكثر وأكثر إدراكًا لتلك الأمور.

والعناية هي أحد المساهمين الرئيسيين في انبعاثات ثاني أكسيد الكربون وهدر الموارد من خلال البناء وبعد ذلك، وبالتالي فإنها تشكل مصدر قلق كبير في العديد من الأماكن...

[قراءة المزيد](#)



ARZ 2.0 GBRS Product mission

1: to understand the sustainable living



ARZ 2.0 GBRS Product mission

2: to give guidelines for a proper **design**



ARZ 2.0 GBRS Product mission

3: to give guidelines how to **construct** building



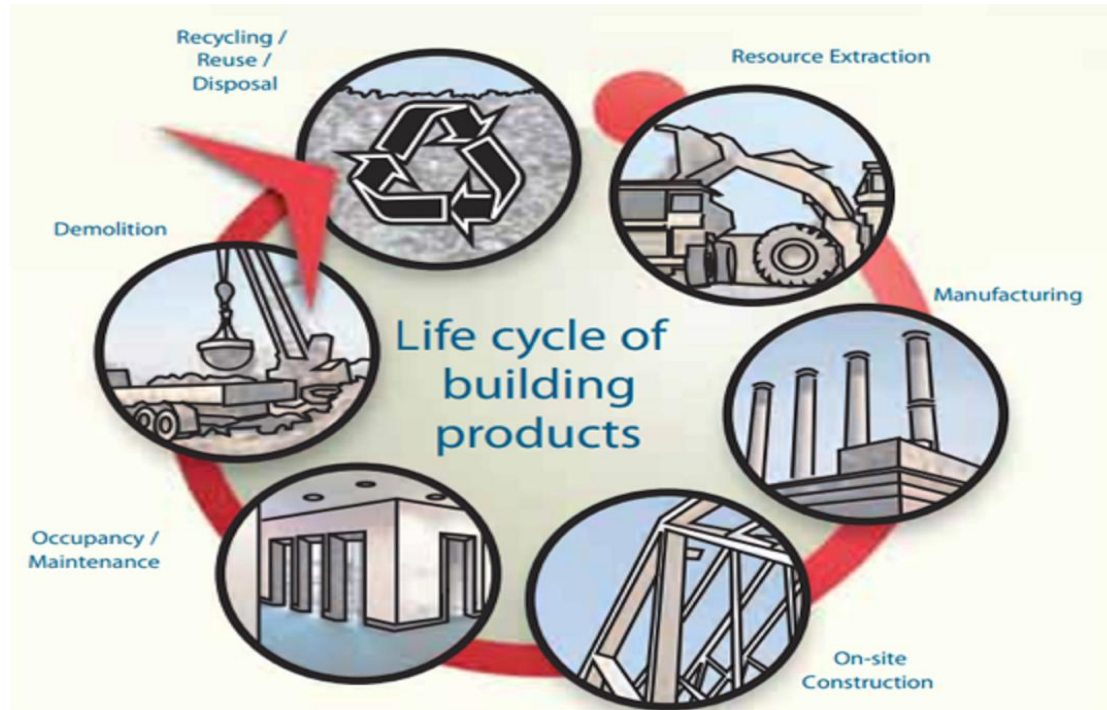
ARZ 2.0 GBRS Product mission

4: to assure safety and healthy space for **occupants**

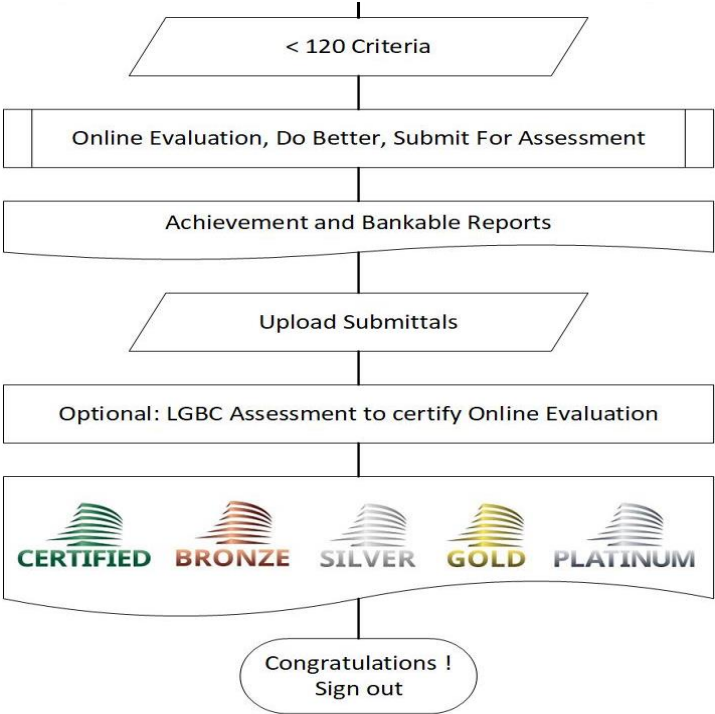
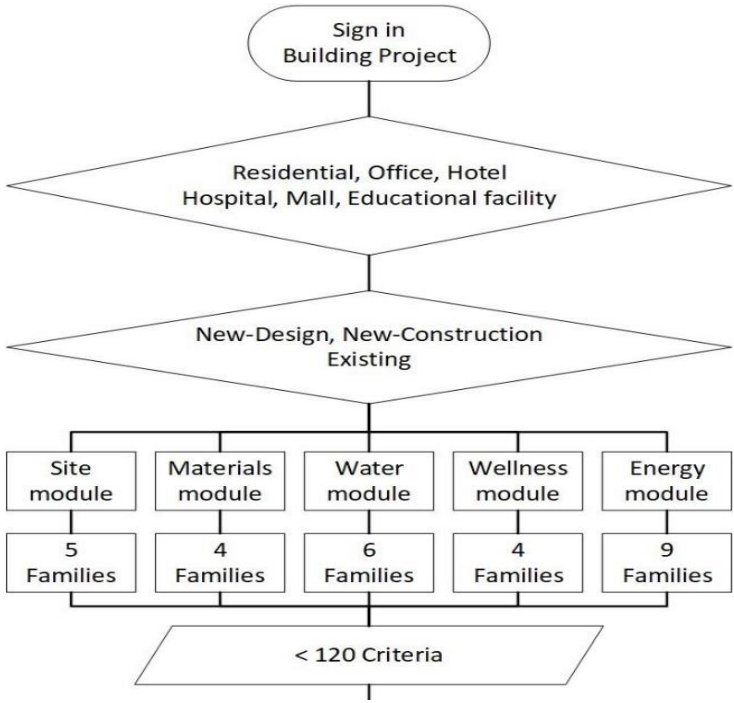


ARZ 2.0 GBRS Product mission

5: to objectively **evaluate** building sustainability



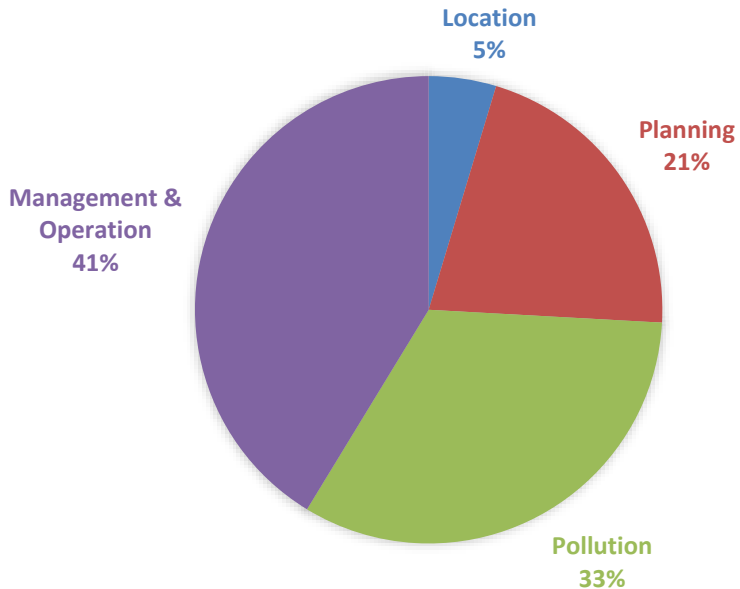
ARZ 2.0 GBRS Process: arzrating.com



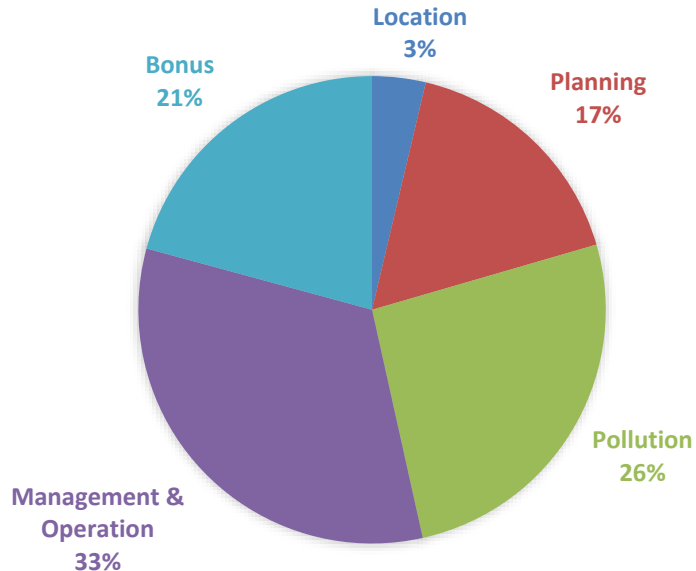


GREEN BUILDING RATING SYSTEM

MODULE SITE FAMILIES



MODULE SITE FAMILIES

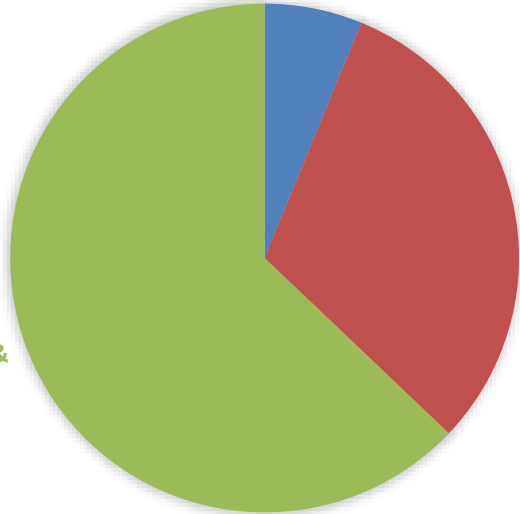




GREEN BUILDING RATING SYSTEM

MODULE MATERIALS FAMILIES

Waste Management
6%



Management &
Operation
63%

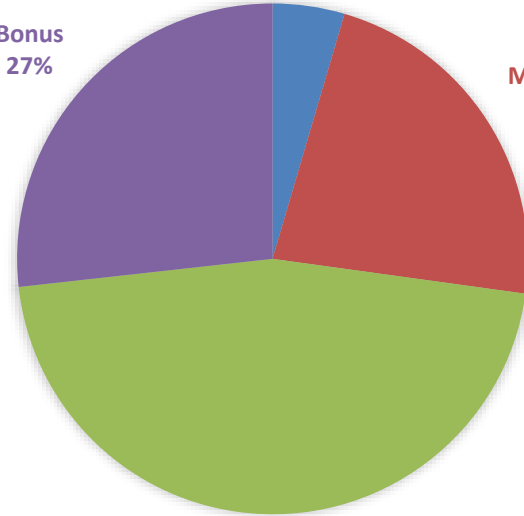
Material Sourcing
31%

MODULE MATERIALS FAMILIES

Waste Management
4%

Bonus
27%

Material Sourcing
23%

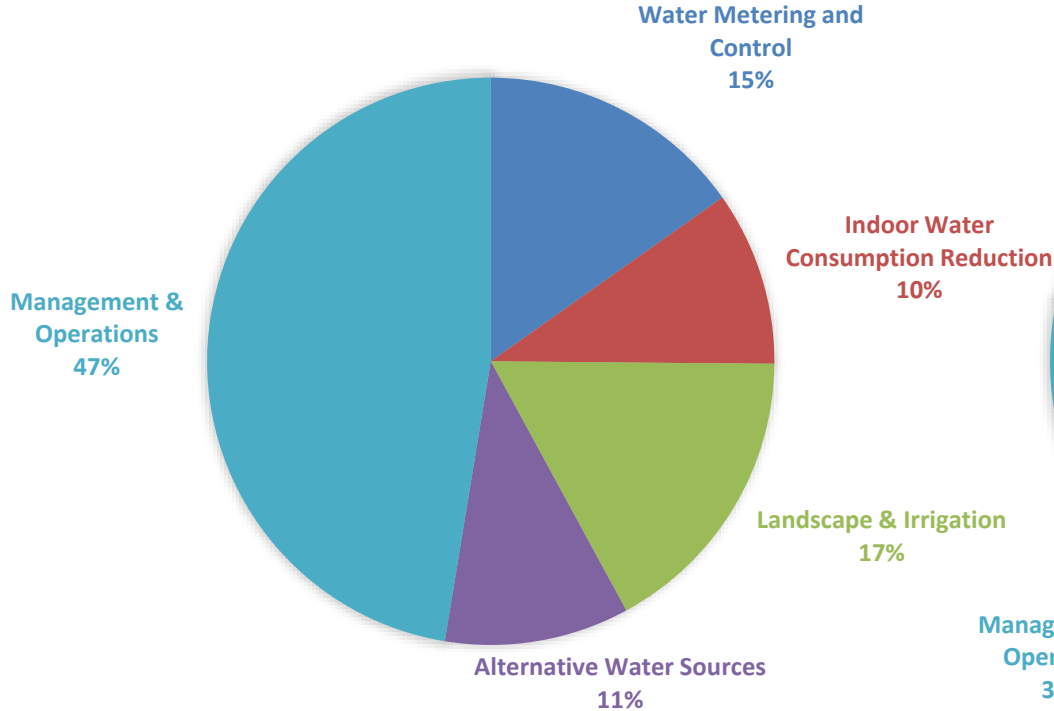


Management & Operation
46%

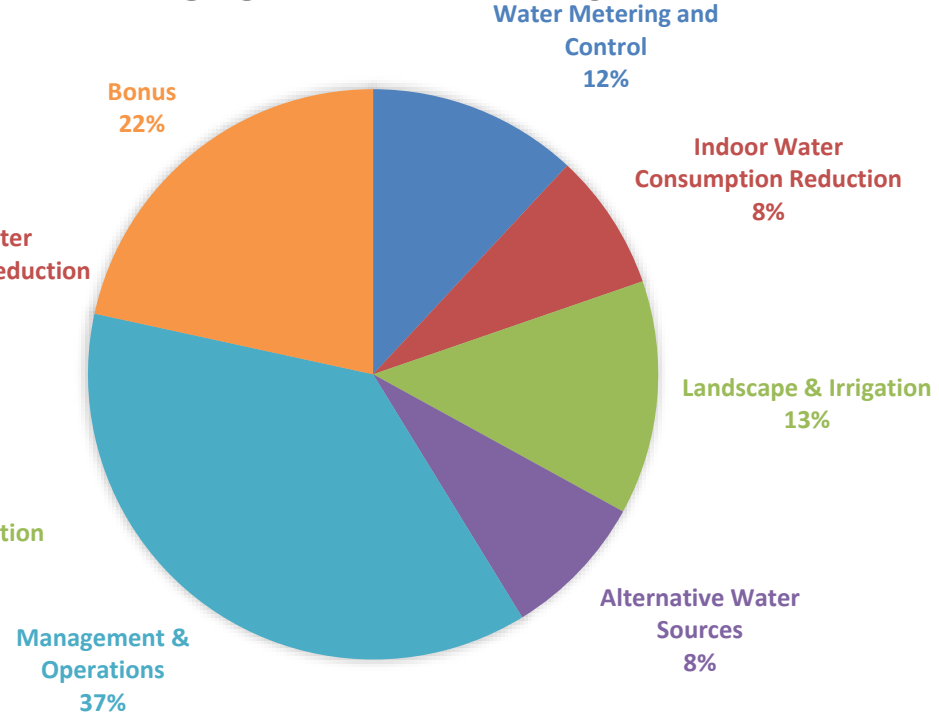


GREEN BUILDING RATING SYSTEM

MODULE WATER FAMILIES



MODULE WATER FAMILIES



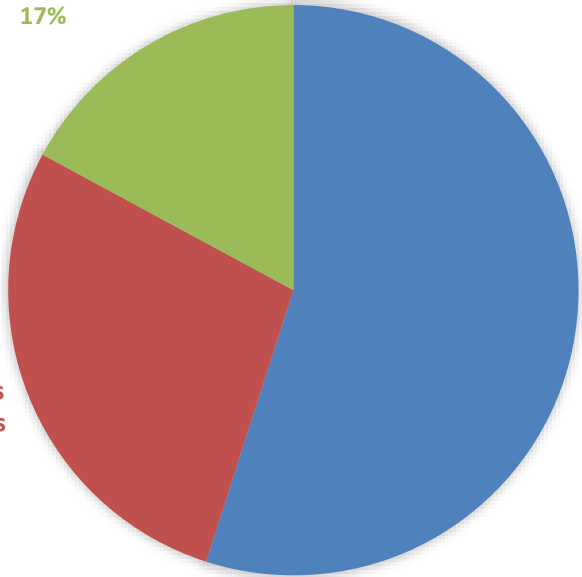


GREEN BUILDING RATING SYSTEM

MODULE WELLNESS FAMILIES

Management &
Operation
17%

Materials
Emissions
28%



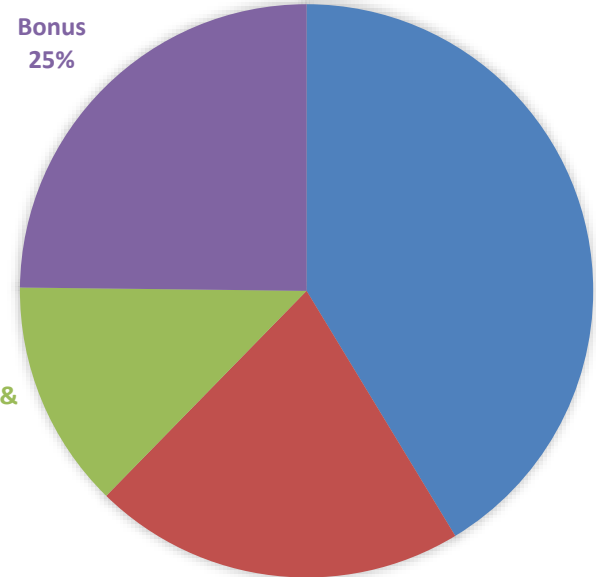
Occupant Comfort
& Safety
55%

MODULE WELLNESS FAMILIES

Bonus
25%

Management &
Operation
13%

Materials Emissions
21%

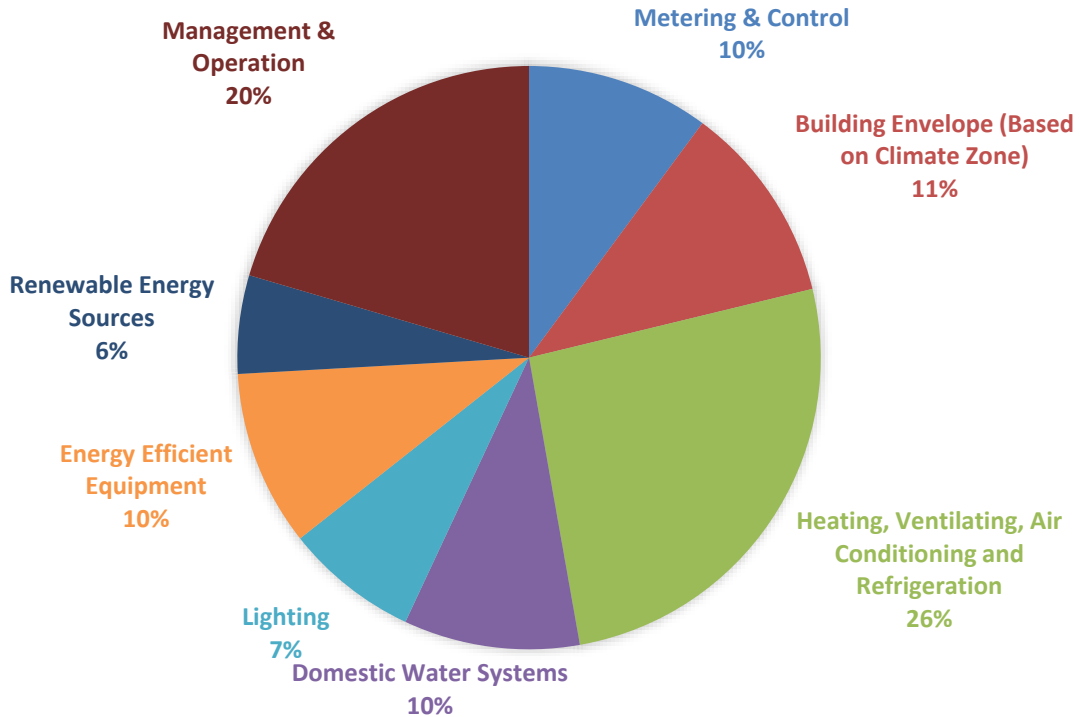


Occupant Comfort
& Safety
41%



GREEN BUILDING RATING SYSTEM

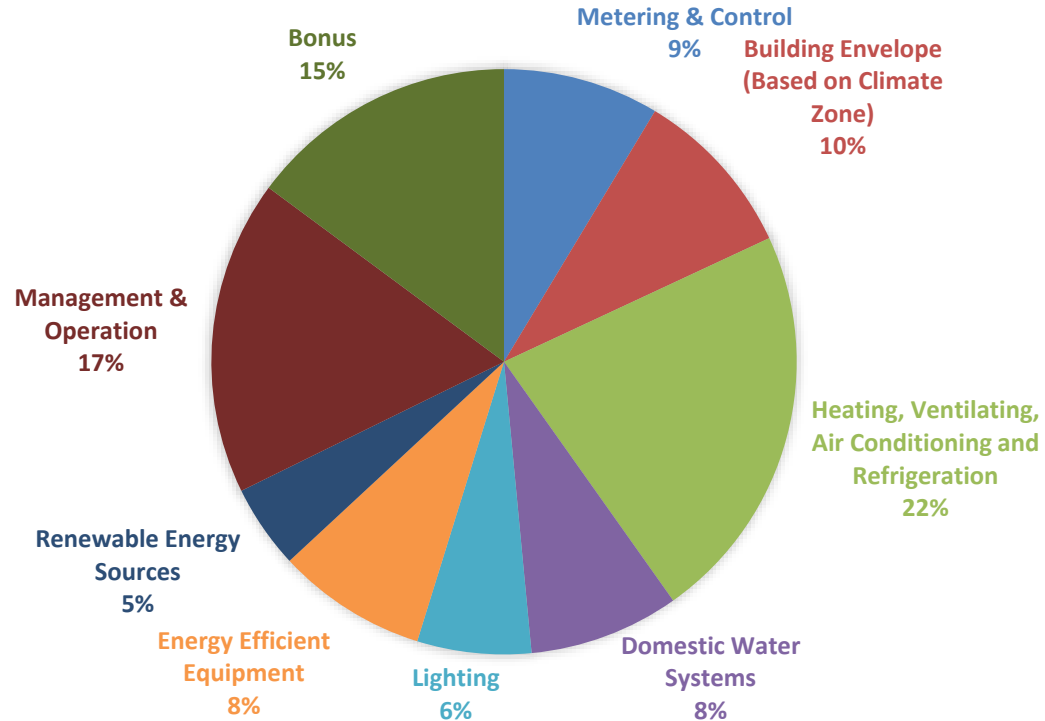
MODULE ENERGY FAMILIES





GREEN BUILDING RATING SYSTEM

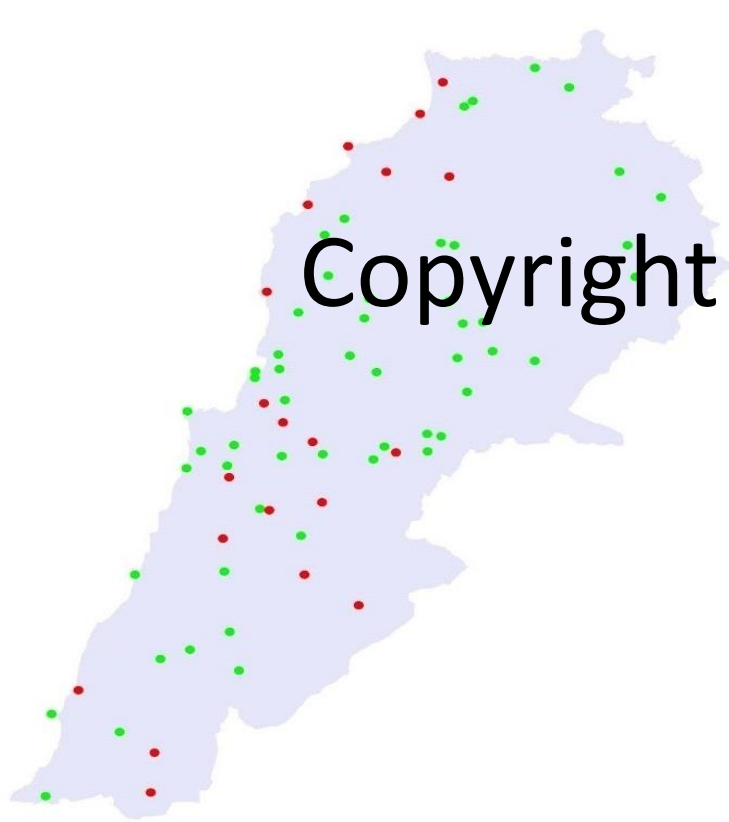
MODULE ENERGY FAMILIES



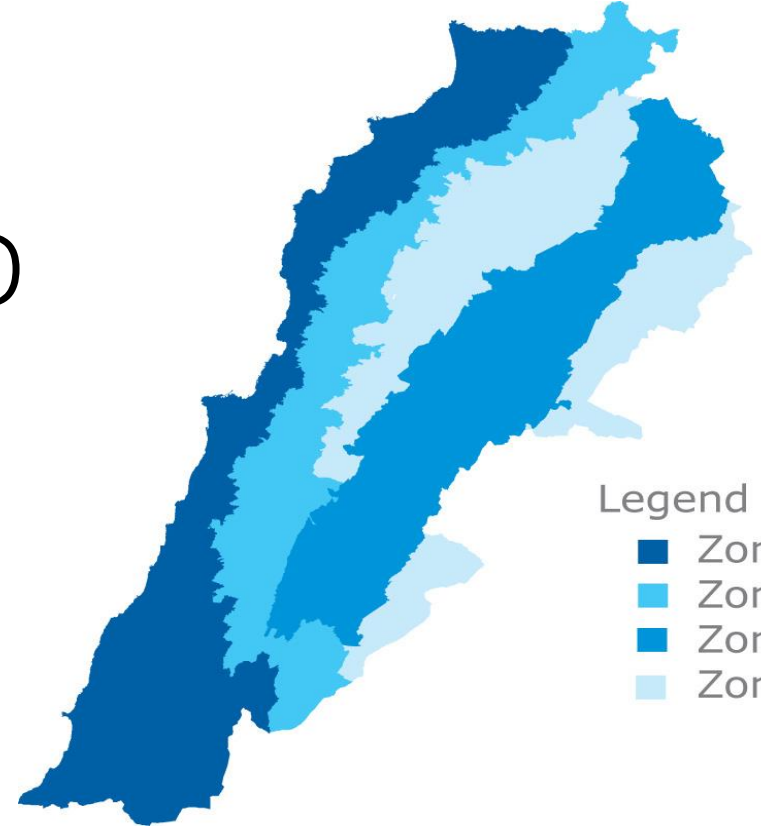


ARZ 2.0

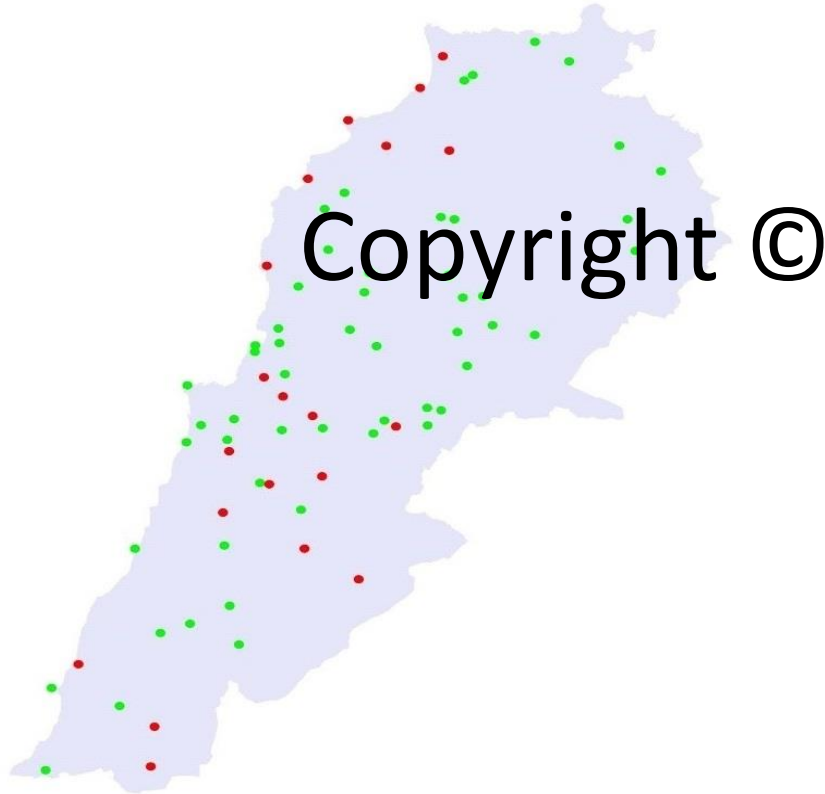
GBRS Updates: Lebanon Specific



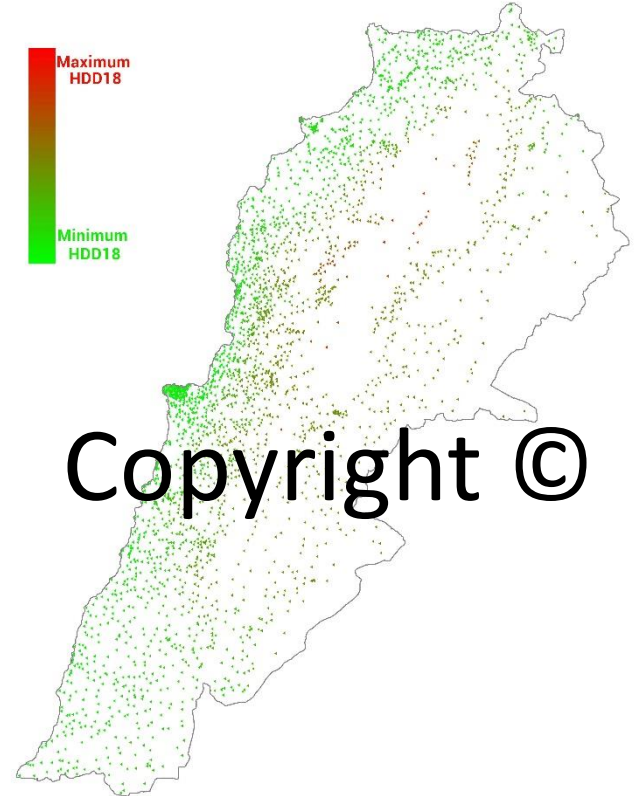
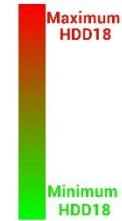
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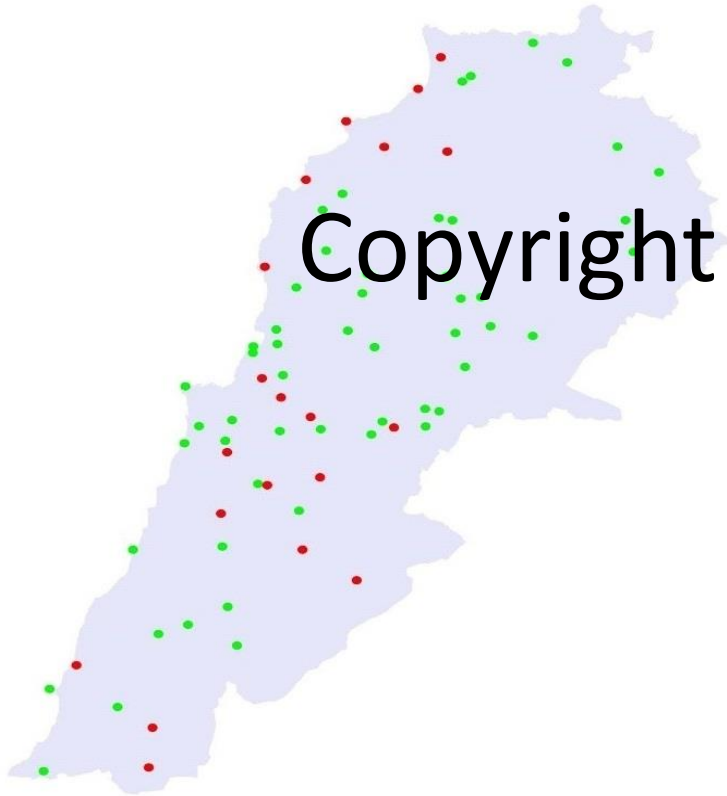


- Legend
- Zone 1
 - Zone 2
 - Zone 3
 - Zone 4



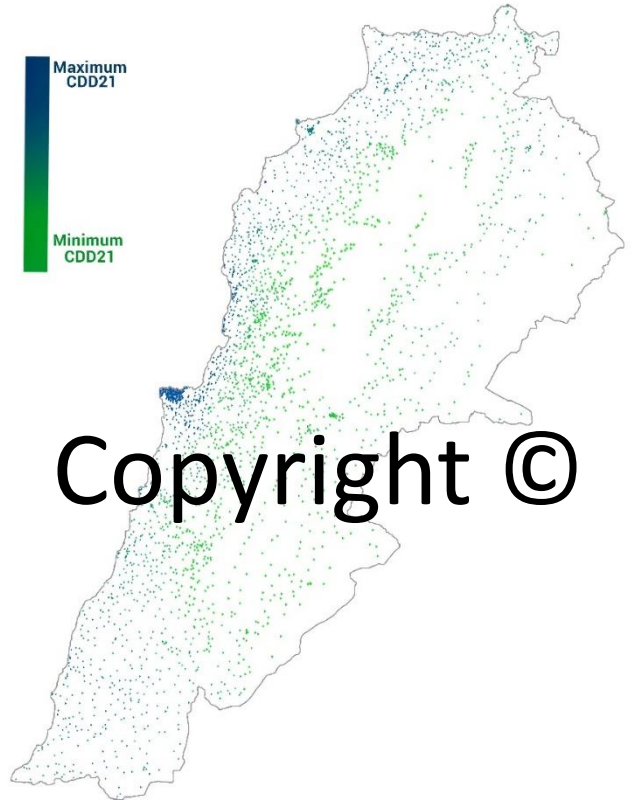
Heating Degree Days - HDD18





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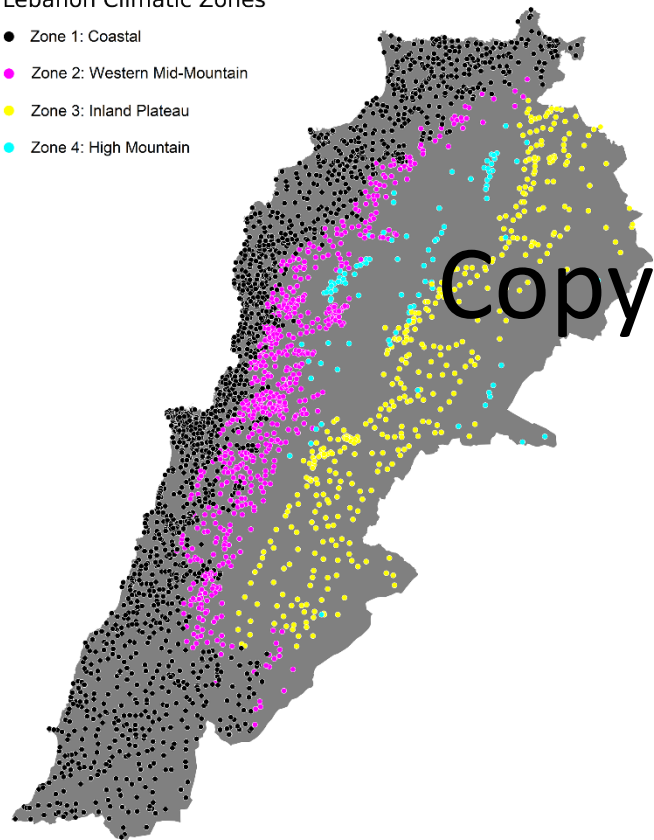
Cooling Degree Days - CDD21



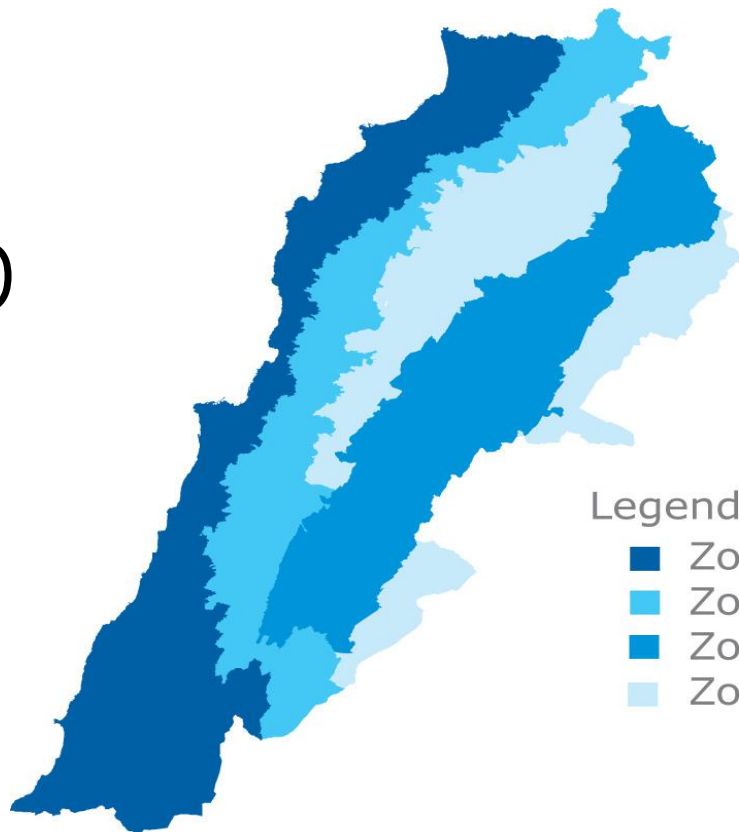
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Lebanon Climatic Zones

- Zone 1: Coastal
- Zone 2: Western Mid-Mountain
- Zone 3: Inland Plateau
- Zone 4: High Mountain



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Legend

- Zone 1
- Zone 2
- Zone 3
- Zone 4



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ARZ 2.0 GBRS Web Portal

www.arzrating.com

Thank you

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