Jotun Group





Green Building Solutions

The global source The single source The proven source

EPD som internasjonalt fortrinn

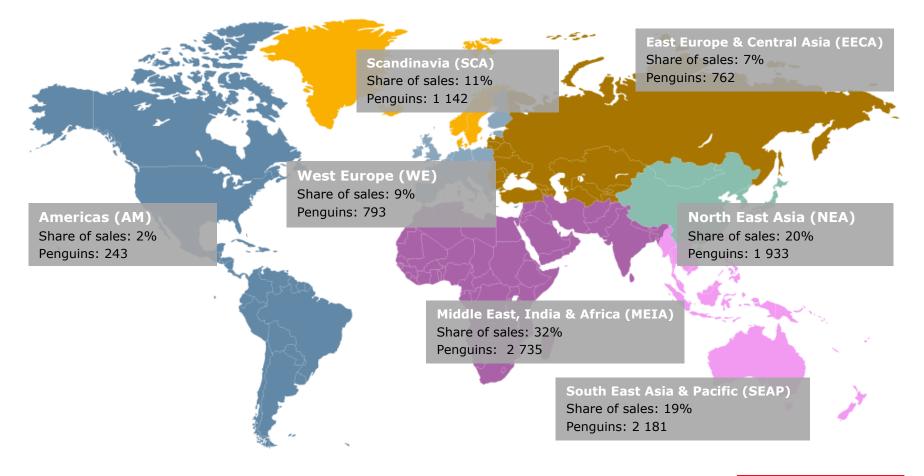
Anne Lill Gade Group Sustainability Manager







The Regions





Our segments





PRODUCTS >









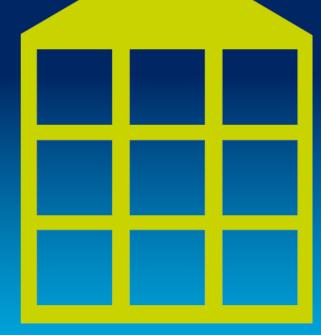








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Green Building Solutions The global source

The single source The proven source



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Cities consume 75% of the world's energy and produce 80% of its greenhouse gas emissions.

Markets & Standards





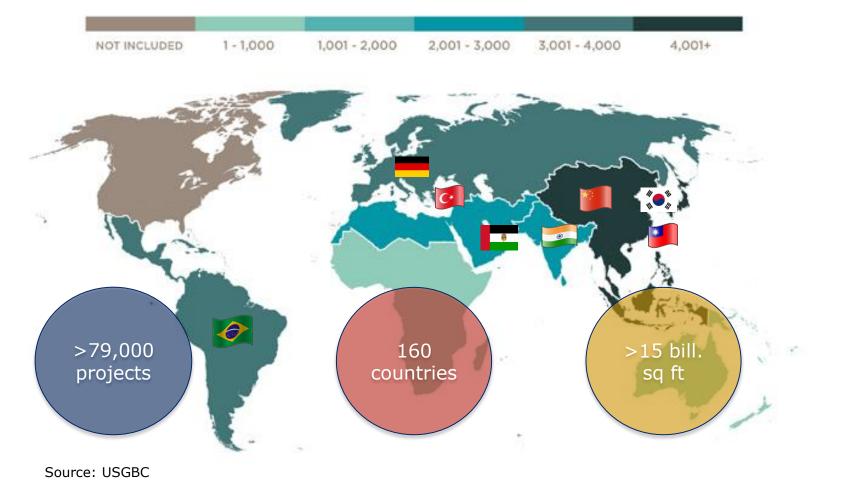


Leadership in Energy and Environmental Design

US Green Building Council



LEED is global







1

Credit Integrative Process

F. 16 LOCATION AND TRANSPORTATION Credit LEED for Neighborhood Development Location 16 Credit Sensitive Land Protection 1 Credit High Priority Site 2 5 Credit Surrounding Density and Diverse Uses 5 Credit Access to Quality Transit Credit Bicycle Facilities 1 Credit Reduced Parking Footprint 1 Credit Green Vehicles 1

SUSTAINABLE SITES		10
Prereq	Construction Activity Pollution Prevention	Required
Credit	Site Assessment	1
Credit	Site Development - Protect or Restore Habitat	2
Credit	Open Space	1
Credit	Rainwater Management	3
Credit	Heat Island Reduction	2
Credit	Light Pollution Reduction	1

WATER EFFICIENCY		11
Prereq	Outdoor Water Use Reduction	Required
Prereq	Indoor Water Use Reduction	Required
Prereq	Building-Level Water Metering	Required
Credit	Outdoor Water Use Reduction	2
Credit	Indoor Water Use Reduction	6
Credit	Cooling Tower Water Use	2
Credit	Water Metering	1

ENERGY	33	
Prereq	Fundamental Commissioning and Verification	Required
Prereq	Minimum Energy Performance	Required
Prereq	Building-Level Energy Metering	Required
Prereq	Fundamental Refrigerant Management	Required
Credit	Enhanced Commissioning	6
Credit	Optimize Energy Performance	18
Credit	Advanced Energy Metering	1
Credit	Demand Response	2
Credit	Renewable Energy Production	3
Credit	Enhanced Refrigerant Management	1
Credit	Green Power and Carbon Offsets	2

Prereq Storage and Collection of Recyclables Required Prereq Construction and Demolition Waste Management Planning Required Credit Building Ife-Cycle Impact Reduction 5 Credit Building Product Disclosure and Optimization - Environmental Product 2 Credit Building Product Disclosure and Optimization - Sourcing of Raw Materials 2 Credit Building Product Disclosure and Optimization - Material Ingredients 2 Credit Construction and Demolition Waste Management 2 INDOOR ENVIRONMENTAL QUALITY 16 Prereq Freeq Environmental Tobacco Smoke Control Required Credit Low-Emitting Materials 3 Credit Low-Emitting Materials 3 Credit Indoor Air Quality Strategies 2 Credit Indoor Air Quality Management Plan 1 Credit Indoor Air Quality Management Plan 1 Credit Daylight 3 2 Credit Interior Lighting 2 2 Credit Indoor Air Quality Management Plan 1 1 Credit Interior Lighting 2	MATERI	ALS AND RES	OURCES		13
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http://www.usgbc.org/resources/leed-v4-building-design-and-construction-checklist



MR CREDIT: BUILDING LIFE-CYCLE IMPACT REDUCTION (3)

Option 4. Whole-Building Life-Cycle Assessment (3 points)

For new construction (buildings or portions of buildings), conduct a life-cycle assessment of the project's structure and enclosure that demonstrates a minimum of 10% reduction, compared with a baseline building, in at least three of the six impact categories listed below, one of which must be global warming potential. No impact category assessed as part of the life-cycle assessment may increase by more than 5% compared with the baseline building.

- 1. global warming potential (greenhouse gases), in CO2e;
- 2. depletion of the stratospheric ozone layer, in kg CFC-11;
- 3. acidification of land and water sources, in moles H+ or kg SO2;
- 4. eutrophication, in kg nitrogen or kg phosphate;
- 5. formation of tropospheric ozone, in kg NOx or kg ethene; and
- 6. depletion of nonrenewable energy resources, in MJ





MR CREDIT: BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION—ENVIRONMENTAL PRODUCT DECLARATIONS

Option 1. Environmental Product Declaration (EPD) (1 point)

- Products with a publicly available, critically reviewed life-cycle assessment conforming to ISO 14044 (1/4 point)
- Environmental Product Declarations which conform to ISO 14025, 14040, 14044, and EN 15804 or ISO 21930 and have at least a cradle to gate scope
 - Industry-wide (generic) EPD 3. party certification (Type III) (1/2 point)
 - Product-specific Type III EPD -3. party certification (Type III) (1 point)





MR CREDIT: BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION—ENVIRONMENTAL PRODUCT DECLARATIONS

Option 2. Multi-Attribute Optimization (1 point)

50%, by cost, of the total value of permanently installed products have to be 3^{rd} party certified and demonstrate **impact reduction below industry average** in >3 of the following categories:

- 1. global warming potential (greenhouse gases), in CO2e;
- 2. depletion of the stratospheric ozone layer, in kg CFC-11;
- 3. acidification of land and water sources, in moles H+ or kg SO2;
- 4. eutrophication, in kg nitrogen or kg phosphate;
- 5. formation of tropospheric ozone, in kg NOx or kg ethene; and
- 6. depletion of nonrenewable energy resources, in MJ.





- Expo 2020 is a Universal Exposition to be hosted by Dubai on October 20, 2020.
- The main site of Expo Dubai 2020 will be located midway between Dubai and Abu Dhabi.
- The master plan is organized around a central plaza enclosed by three large pavilions.
- The target set by *Expo* is to achieve at least the *LEED* Gold *certification* for all permanent buildings

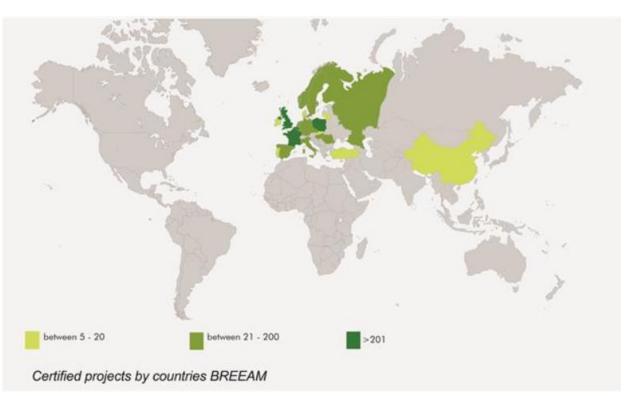


LEEDv4 project in: Riyadh – Damam - Madinah





BREEAM®



- Introduced in U.K. in 1990 by the British Research Establishment (BRE)
- Used in more than 60 countries
- Over 532,000 buildings certified worldwide

http://www.ongreening.com/en/Resources/how-breeam-certification-work-1294 02.07.2016



Mat 01: Life cycle impacts – 1 point

At least five products specified at Design Stage and installed by Post-Construction Stage are covered by verified Environmental Product Declarations (EPD).

- An EPD is an independently verified environmental label (i.e. ISO Type III label) according to the requirements of ISO 14025.
- For construction products, the EPD must be produced to either EN 15804, ISO14025 or ISO 21930.



BREEAM®NOR krav

BREEAM®NOR (2016)

Mat 01: Produkt-spesifikk Type III EPD (ISO 14025, ISO 21930, EN 15804)

BREEAM®NOR (2012)

Mat 1.3: Produkt-spesifikk Type III EPD (ISO 14025, ISO 21930, EN 15804)



Jotun Group

Jotun investerer i forskning og utvikling i Sandefjord

Pressemelding • des 08, 2015 13:13 CET



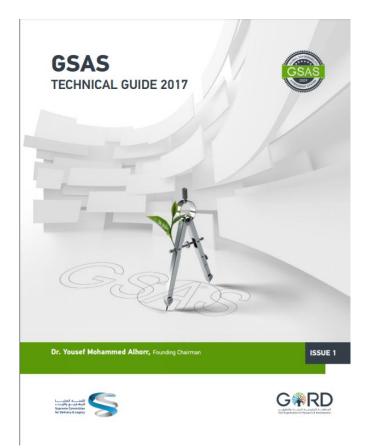
Bygget skal miljøsertifiseres i henhold til BREEAM NOR

Sandefjord, 8. desember 2015: Styret og bedriftsforsamlingen i Jotun A/S har besluttet å investere NOK 1 115 millioner i et nytt forskningssenter og hovedkontor for konsernet på Gimle i Sandefjord. Samtidig planlegges det for 200 flere ansatte frem mot 2030, en stor andel av disse innen forskning og utvikling.

Jotun Group



GSAS – Middle East Region



M.1:	Regional materials	
M.2:	Responsible sourcing of materials	
M.3:	Recycled content	
M.6:	Design for disassembly	
M.7:	Life cycle assessment	
IE.2:	Low-emitting materials	
IE.8:	Illumination levels	
IE.9:	Acoustic quality	
IE.10:	Daylight	
http://www.gord.qa/admin/Content/ Link291201722416.pdf		



Jecun A/S



Penguard WF, Jotun U.A.E. Ltd. (L.L.C.) Penguard Express ZP E, Jolun U.A.E. Ltd. |L.L.C.)

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Jobun A/S

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Skundenseus

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Pilot WF Primer, Jolun Abu Dhebi Ltd. (L.C.C.) Hardlop One, Jolun Abu Dhabi Ltd. (L.C.C.)

Jotun A/S



Pilot

Pilot WF LG, Jolun Abu

Dhebi Ltd. [L.C.C.]

Jotun A/S



Jotun A/S

WaterFine

Jolun Super Durable 2903, Jolun Costings Zhangjiegengl Co. Ltd.



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Pilot WF, Jotun Abu Dhabi Ltd. (L.C.C.)

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Jotun A/S



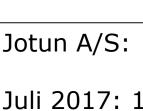


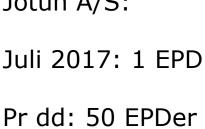




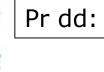
















Johan U.A.E. Ltd: [L.L.E.]

Jotun A/S

Hardtop

whomestic Wonderwall,

n

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Sills, Jutiari Boya Sart. ve Titt. A.S.

Jobun A/S

Spørsmål?



EPD Norge - Årsmøte 10.april 2018 - Anne Lill Gade