

EMPOWERED BY Multiconsult

The Return of Carbon Finance
for Renewable Energy Projects:
When? What? How? Really?

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Past and future



1908
Rangvald Lie
founds Norsk
Vandbyggnings
kontor (NVK)

1900

1910

1920

1930

1940

1950

1960



1961
Ing. E.N Hylland
becomes
Sivilingeniørene
Apeland & Mjøset AS



1945
Einar N. Hylland
founds «Ingeniør
Einar N. Hylland».

Few years later
Hylland is involved in
the modernisation of
Holmenkollen ski jump
for the Olympic games
in Oslo 1952



1971
Norplan
established



1989
Jacobson &
Widmark
(WSP) enters
ownership



2002
The business
areas
introduced

1970

1980

2000

1990



1974
Multiconsult
AS introduced
as company
name and
Multiconsult
Foundation
established

1990
NOTEBY AS
merges
with
Multiconsult



2003
NVK merges with
Multiconsult

50

1995
50th
anniversary

100

2008
100th
anniversary



1997
Multiconsult
with a clearly
multidisciplinary
profile



2012
Norplan
Hydropower Ltd
(Multiconsult UK)
established



2014
Multiconsult
Polska
established



2013
The 3-2-1
strategy
implemented



2015
LINK arkitektur
becomes a fully
owned subsidiary

NOTERT

OSLO BØRS

2015
Listed on the
Oslo Stock
Exchange

2020

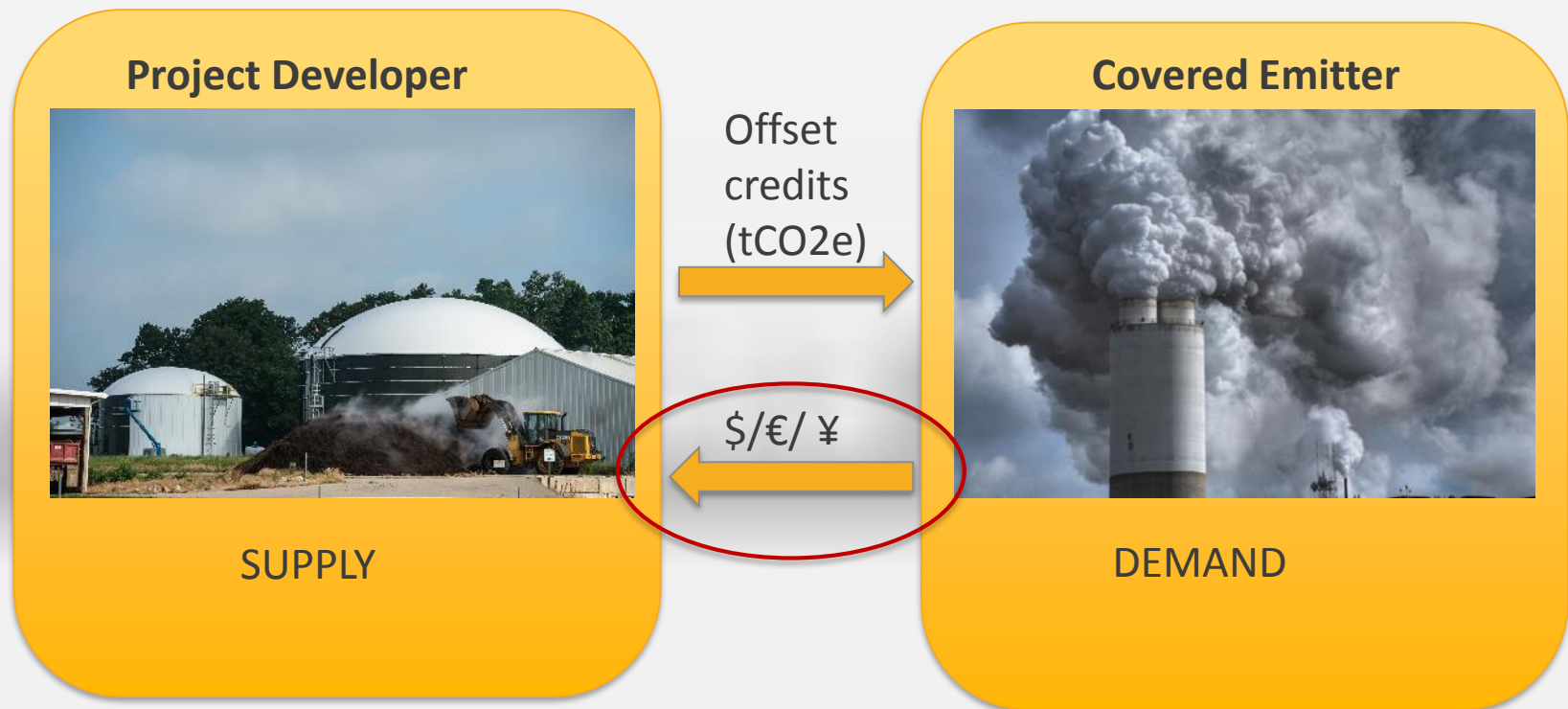
Multiconsult ASA: full service engineering & technical consultancy

• Founded	1908 (listed 2015, OSL:MULTI)	• Operating revenues	2.968 MNOK (2016)
• Employees	2.450	• Headquarters	Oslo, Norway



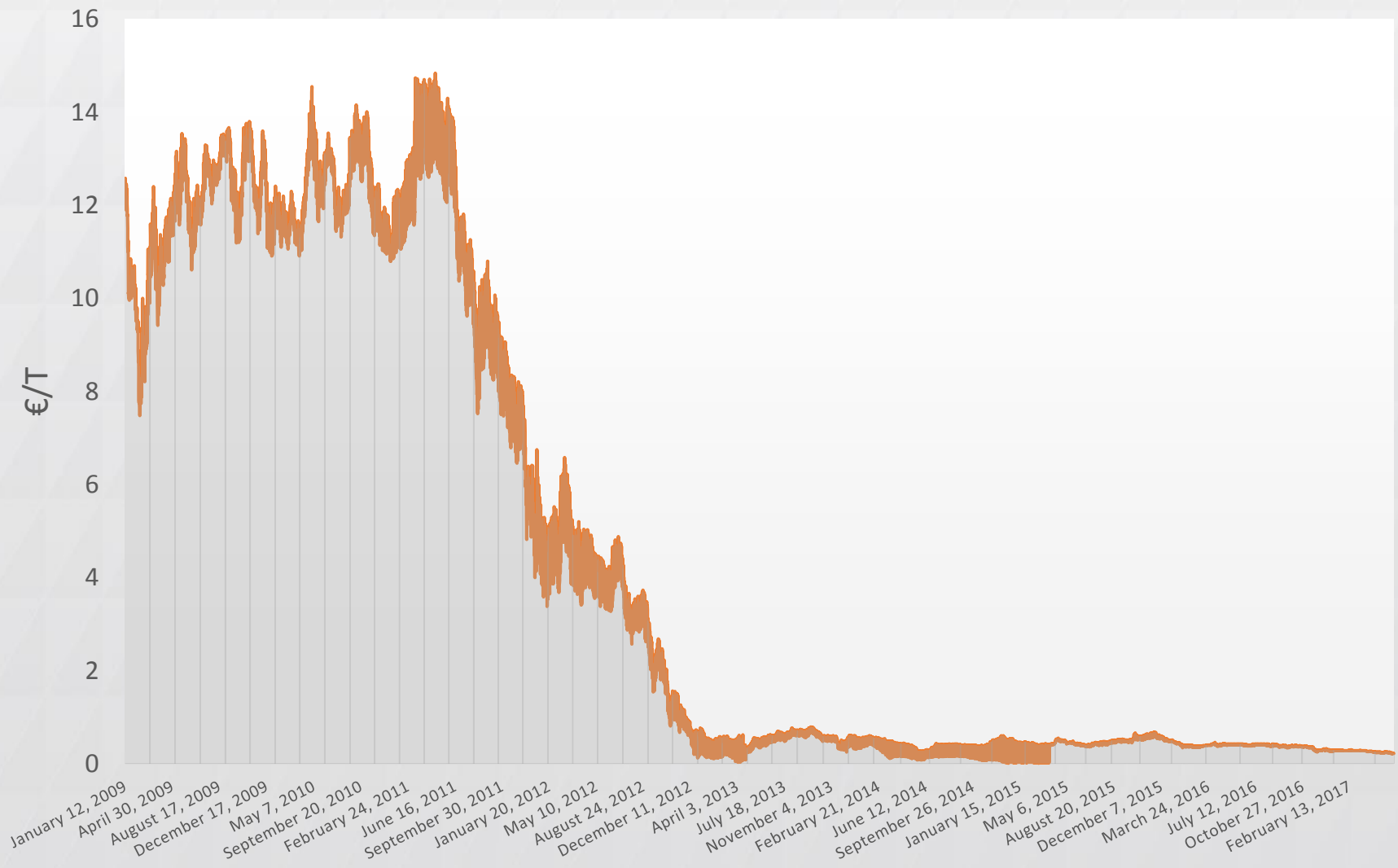
- Permanent presence through subsidiary
- JVs to support Energy and Oil & Gas projects
- Sales offices

Carbon finance: extra revenues to project owners where projects produce «additional» GHG reductions

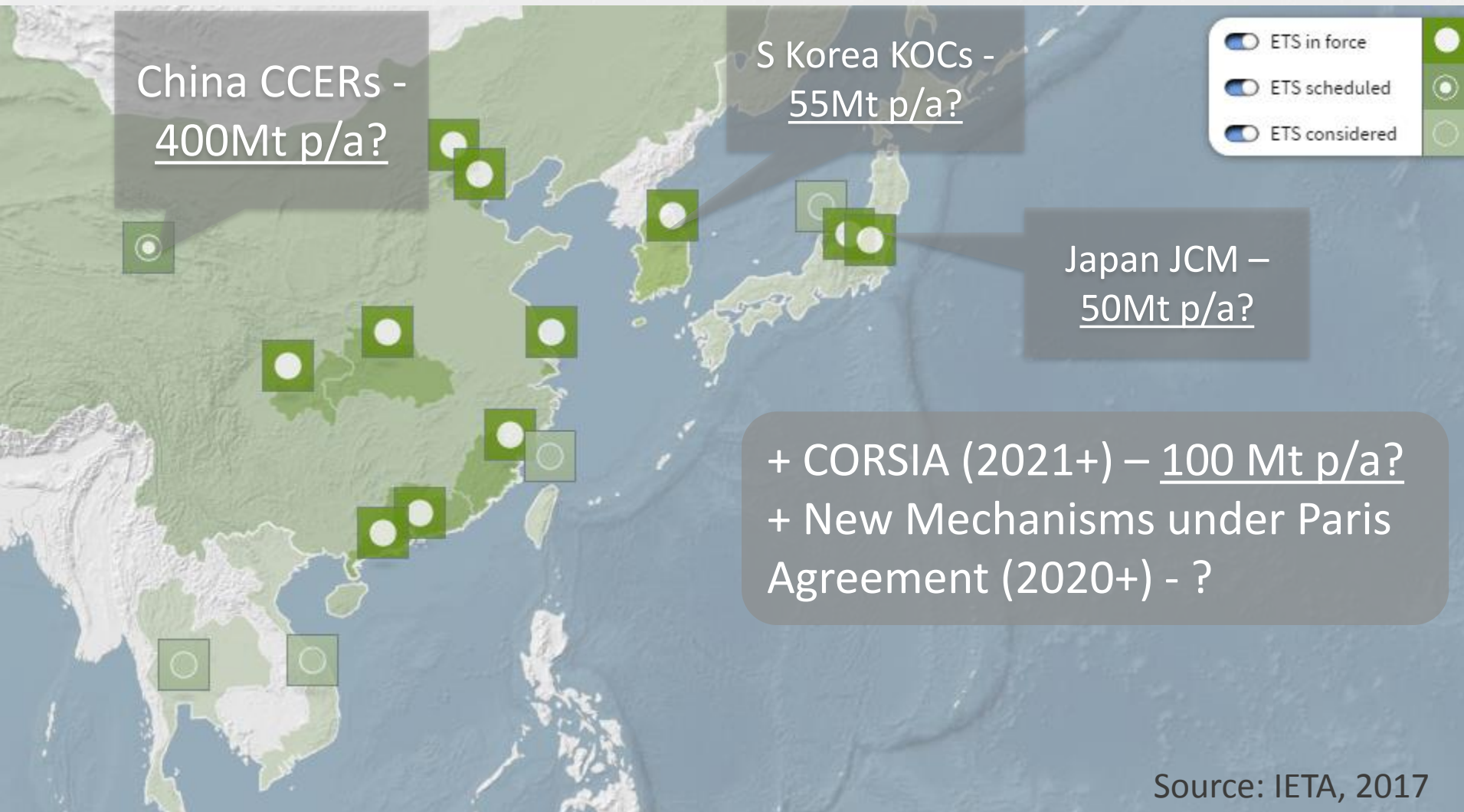


That's had its share of ups and downs...

CER Futures Price (ICE)

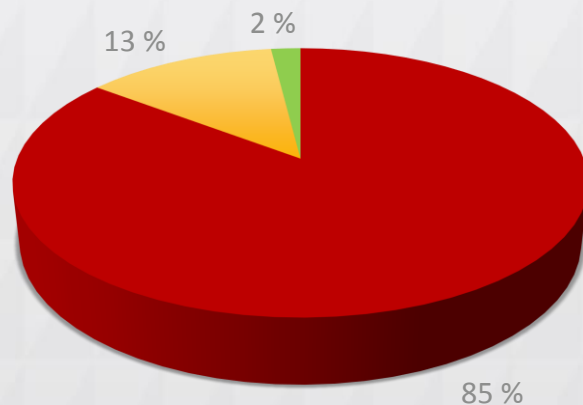


And now promises a rebound...



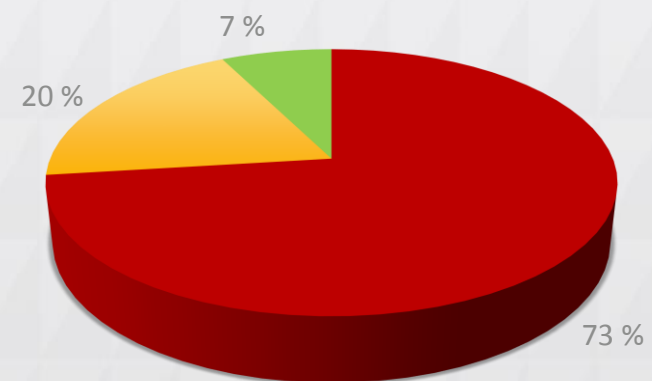
But what have we learned?

CDM projects



■ Low ■ Medium ■ High

CER supply 2013 to 2020, (Mt CO₂e)



■ Low ■ Medium ■ High

Potential CER supply To 2020, Mt CO₂e

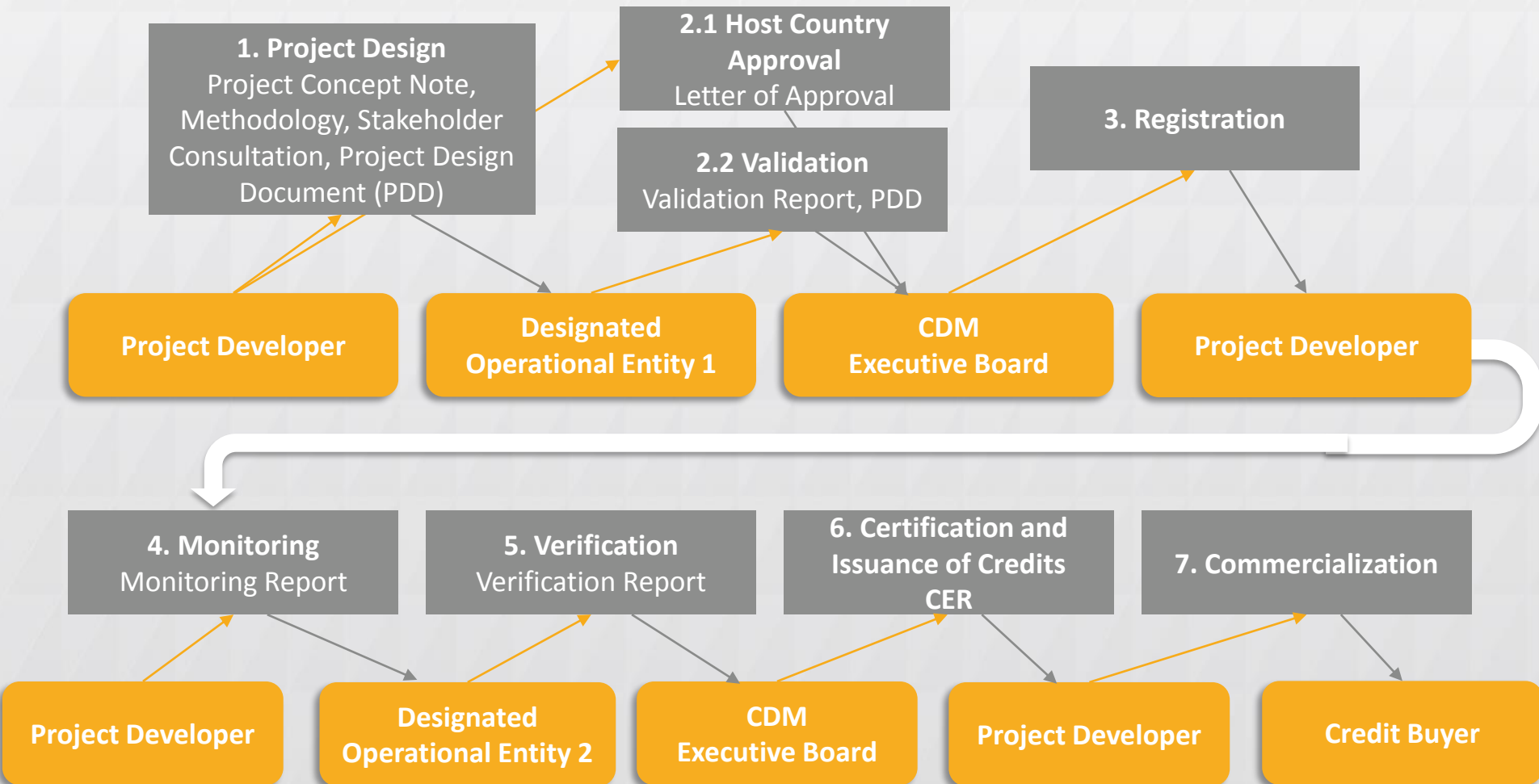
Low: 3527

Medium: 943

High: 359

Hydro power	Wind power	Fossil fuel switch	Waste heat recovery	Efficient lighting	Cook stoves	Adipic acid	HFC-23 abatement	Coal mine methane	Landfill gas	Biomass power	HFC-23 abatement	Nitric acid
1669	1397	232	222	4	2	257	191	170	163	162	184	175

Do we need this complexity?



«We are what we do.
And what we do is what we become.»



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Status of the industry 2017

5000+ projects. 1.75 bn+ tCO2e reductions (?)



規則の基本概念

All RE projects have suspect additionality

