



# INDICATORS OF CHANGE

The following section provides details of our Lendlease Climate Scenarios. Unless otherwise stated, all metrics have been sourced from peer-reviewed data in the Reference Point sources.

RESIGNATION

POLARISATION

PARIS ALIGNMENT

TRANSFORMATION

SOCIO-CULTURAL REFERENCE POINT

Temperature Range	4°C+   7°F+	3-4°C   5-7°F	2-3°C   3.6-5°F	<2°C   <3.6°F
Carbon Emissions Pathways, IPCC Assessment Report 5, 2014	RCP8.5	RCP6.0	RCP4.5	RCP2.6
Energy Pathway, International Energy Agency / WEO 2018	Current Policy Scenario (CPS)	New + Existing Policies Scenario (NPS)	Sustainable Development Scenario (SDS)	
Energy Technology Perspectives, IEA/ETP 2017		Reference Technology Scenario (RTS)	2 Degree Scenario (2DS)	Beyond 2 Degree Scenario (B2DS)
Social and Economic Pathways, IPCC Shared Socioeconomic Pathways	SSP5 + SSP4	SSP3	SSP2	SSP1
Cement + Steel: Energy Transition Risks Project		Limited Climate Transition Scenario (LCT)	Ambitious Climate Transition Scenario (ACT)	
CICERO Climate Scenarios	Current Policies (CPS)	New Policies (NPS)	Sustainable Development (SDS)	

Global Carbon Emissions Peak in Year	2080	2040	2020	2020
Net Zero Annual Global Emissions in Year	After 2100	After 2100	2080	2050
Proportion of New Vehicles are Electric in 2040 (IC1)	<14%	14%	44%	46%

TECHNOLOGICAL

Residential building energy efficiency improvement per year	<0.6%	0.6%	2%	>2%
Commercial building energy efficiency improvement per year	<1.5%	1.5%	2%	>2%
% of Electricity used for heating and cooling (current 40%)	40-60%	66%	73%	84%
Reduction in carbon intensity of cement by 2060 from 2014	<1%	1%	25%	63%
Reduction in carbon intensity of steel by 2060 from 2014	0%	0%	60%	90%
Proportion of Energy from Renewable Sources by 2060 Globally (2014: 22%)	<36%	36%	72%	83%
Proportion of Energy from Fossil Fuels by 2060 Globally (2014: 65%)	>74%	74%	5%	2%
Total Energy Supply from Low-Carbon Generation by 2040	<50%	50%	85%	95%
Annual Energy Intensity Improvement to 2040	1.9% (CPS)	2.3% (NPS)	3.2% (SDS)	>3.2%
Proportion of Energy Generated Using Carbon Capture and Storage (2014: 0%)	<9%	9%	2%	12%

ECONOMIC

Cost of Carbon by 2040 (USD/Tonne)	\$50	\$50	\$140	\$140
Reduction in Labour Capacity 2100, compared to today. (IC2)	37%	<37%	25%	<25%

ENVIRONMENT

Sea Level Rise Long-Term (IC3)	8.9m sea level rise	6.4m sea level rise	4.7m sea level rise	2.9m sea level rise
Sea Level Rise, 2100	45-82cm	32-62cm	32-62cm	26-54cm
People displaced by sea level rise, long-term (IC3)	627m people affected	432m people affected	280m people affected	137m people affected
Frequency of extreme rainfall (IC4)	>+36%	>+36%	+36%	+17%
Increase in drought length (months) (IC5)	>18	18	11	9

World Population 2100	7.4-9.3 Billion	12.6 Billion	9 Billion	6.9 Billion
Intergroup Conflict (IC6)	+45.2%	+33.9%	+22.6%	+11.3%
Global Dryland Area Suitable for Malaria Transmission (IC7)			+27%	+19%