GRID INFRASTRUCTURE CHEAT SHEET

Multiple **terawatts** of renewable energy (RE) are standing in line to connect to the electrical grid. In order to decarbonize the power sector, we need to **deploy and optimize** grid infrastructure. We are looking for startups that unlock higher RE utilisation at the edges through: (i) **planning and finding** optimal grid interconnections, and (ii) **forecasting and analytics** to balance and enhance the grid





40% of CO2 emissions are caused by burning fossil fuels for electricity and can be reduced through the expansion and upgrade of grid infrastructure to support more RE Grid software technologies can help **avoid up to 500MT** of direct CO_2 emissions through efficiency in planning and

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Sources: Indigo Advisory Group,

rebase.energy

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Business Opportunity	Challenges & Limitations
 80 million km of new grid infrastructure will have to be built by 2050 Every dollar invested in RE, needs to be matched with one dollar for expanding the grid Beyond investing in infrastructure, digital solutions are crucial for planning, maintaining and optimizing the grid Digital solutions account for 20% of grid spending in the EU Contracts with TSOS / DSOS / utilities have the potential to be large, sticky and expandable In the past 2 years, \$8 billion has been invested globally in grid tech startups 	 The grid's stakeholder system is complex, and includes several players, making the go to market difficult There is a high degree of customer concentration in certain geographies (e.g. 4 TSOs in Germany) Since the grid is considered critical infrastructure, decision processes are lengthy, with sales cycles ranging from 12 to 18 months Regulation favors Capex over Opex investments, distorting decision-making for software solutions.

Sources: IEA, Indigo Advisory Group, Financial Times, Bloomberg





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