

Decentralized power plants:

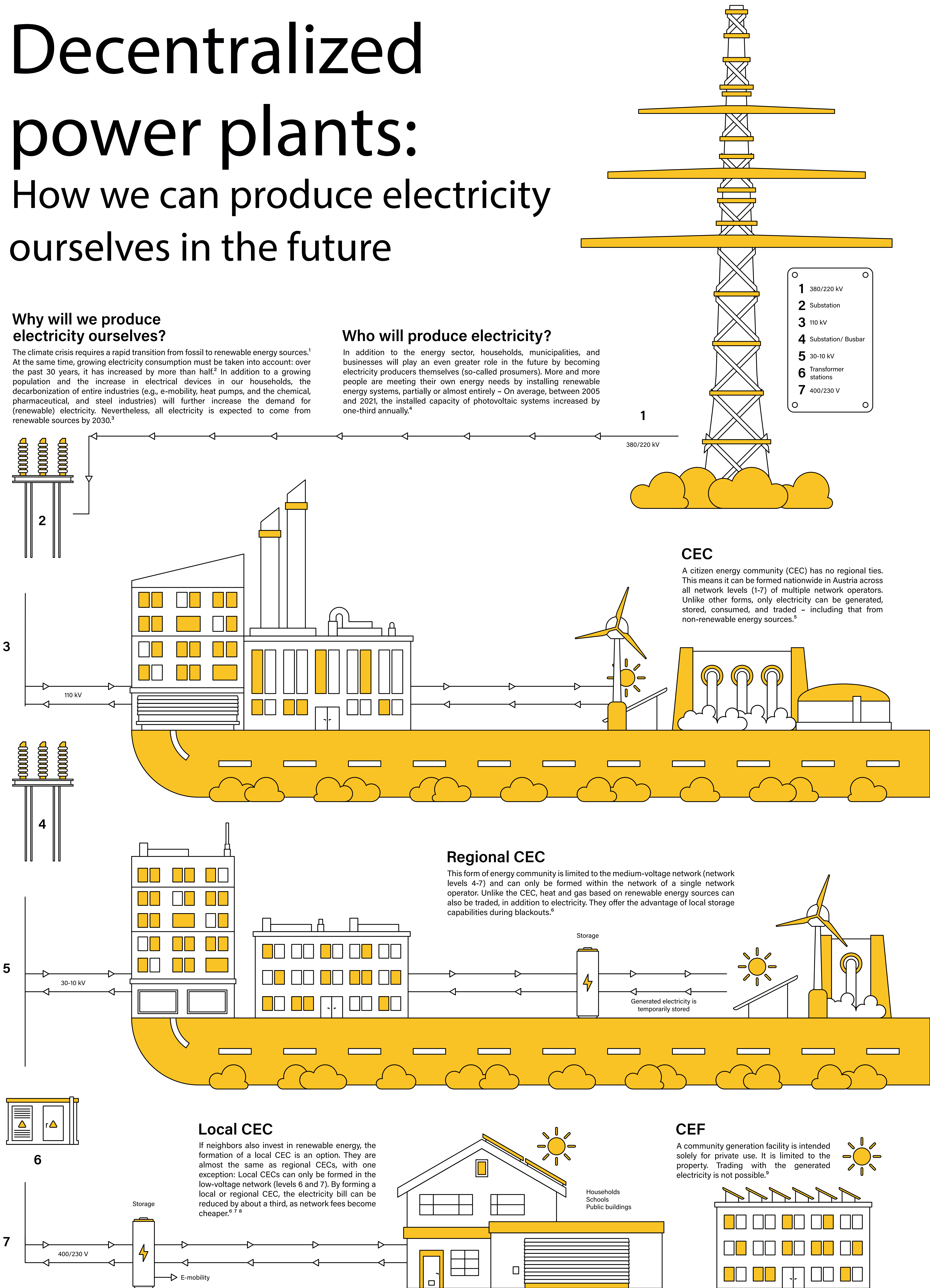
How we can produce electricity ourselves in the future

Why will we produce electricity ourselves?

The climate crisis requires a rapid transition from fossil to renewable energy sources.¹ At the same time, growing electricity consumption must be taken into account: over the past 30 years, it has increased by more than half.² In addition to a growing population and the increase in electrical devices in our households, the decarbonization of entire industries (e.g., e-mobility, heat pumps, and the chemical, pharmaceutical, and steel industries) will further increase the demand for (renewable) electricity. Nevertheless, all electricity is expected to come from renewable sources by 2030.³

Who will produce electricity?

In addition to the energy sector, households, municipalities, and businesses will play an even greater role in the future by becoming electricity producers themselves (so-called prosumers). More and more people are meeting their own energy needs by installing renewable energy systems, partially or almost entirely – On average, between 2005 and 2021, the installed capacity of photovoltaic systems increased by one-third annually.⁴



¹ vgl. IPCC, 2022d, S. 685f.

² vgl. Statistik Austria, 2023a, Register Elektrische Energie

³ vgl. Bundesklimaschutzplan, 2020, S. 72

⁴ vgl. BMK, 2022b, S. 22

⁵ vgl. Klima- und Energiefonds, 2023a

⁶ vgl. Klima- und Energiefonds, 2023d

⁷ vgl. Klima- und Energiefonds, 2023a

⁸ vgl. E-Control, 2023

⁹ vgl. Klima- und Energiefonds, 2023c