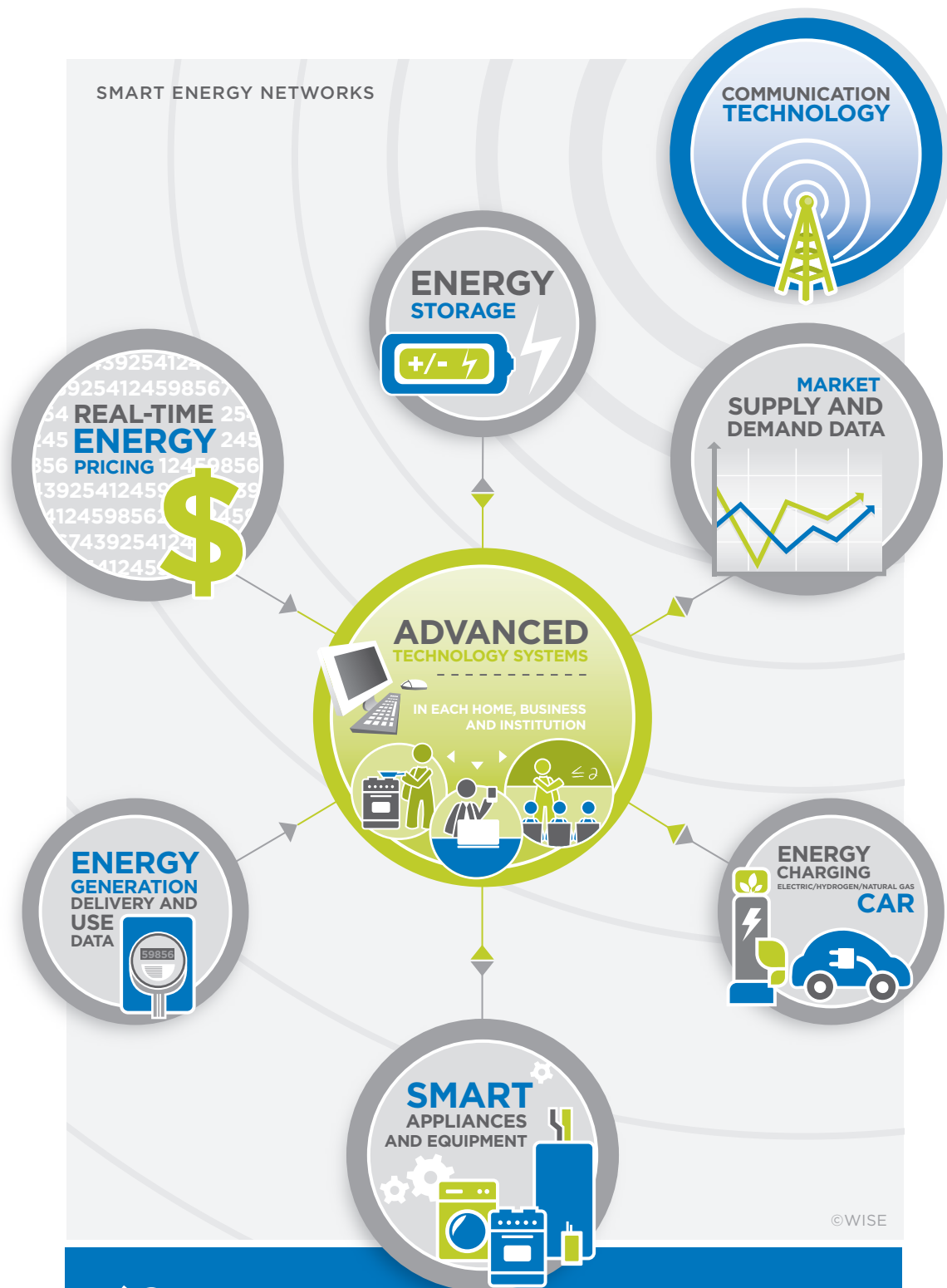


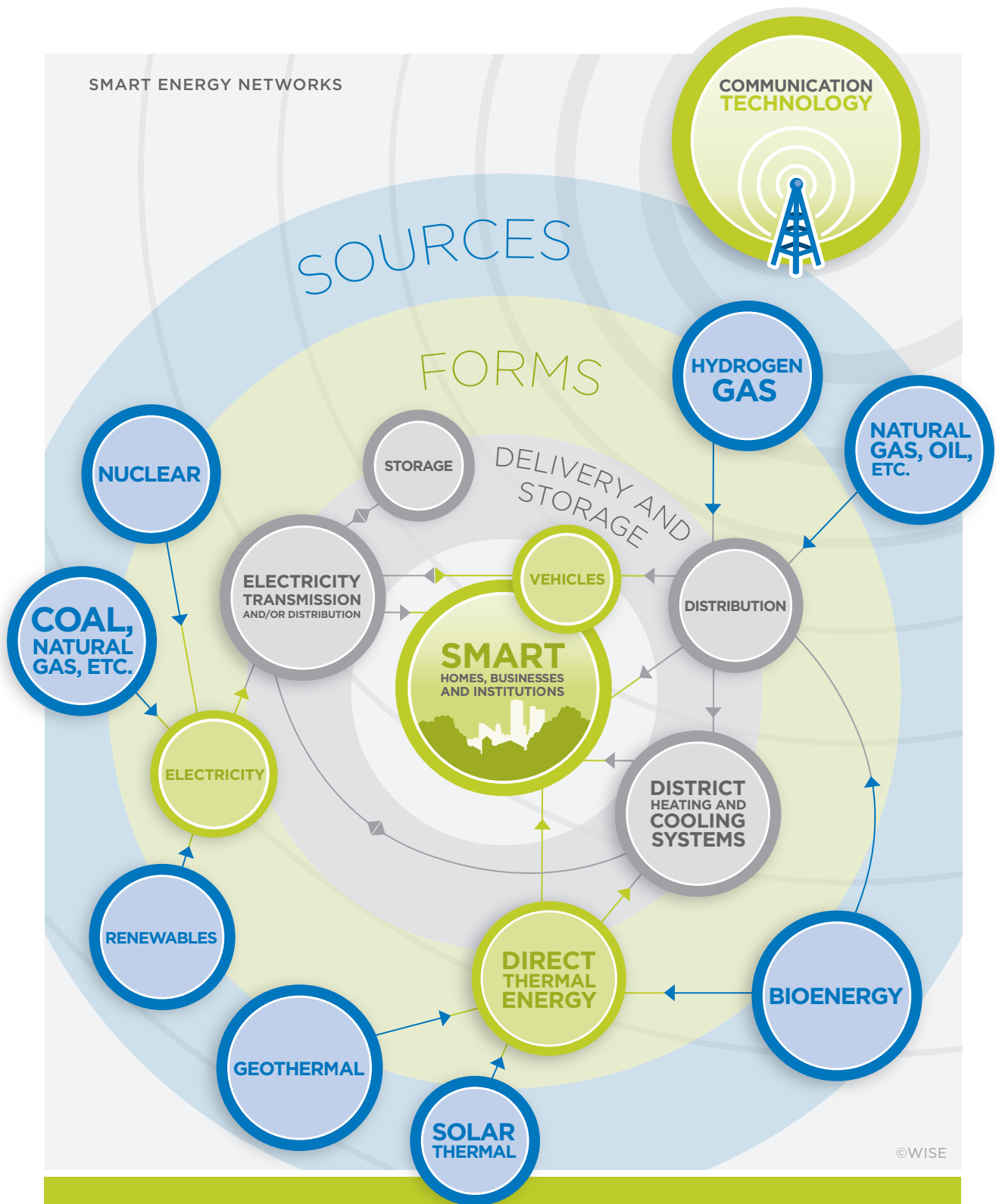
## SMART ENERGY NETWORKS



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# SMART

**INFORMATION FLOW:** In Smart Energy Networks, advanced technology systems use information from different sources to make better decisions: how much energy to use, when to use it, and what sources to tap at any given moment. The result? Consumers and businesses get the energy they need as efficiently as possible.

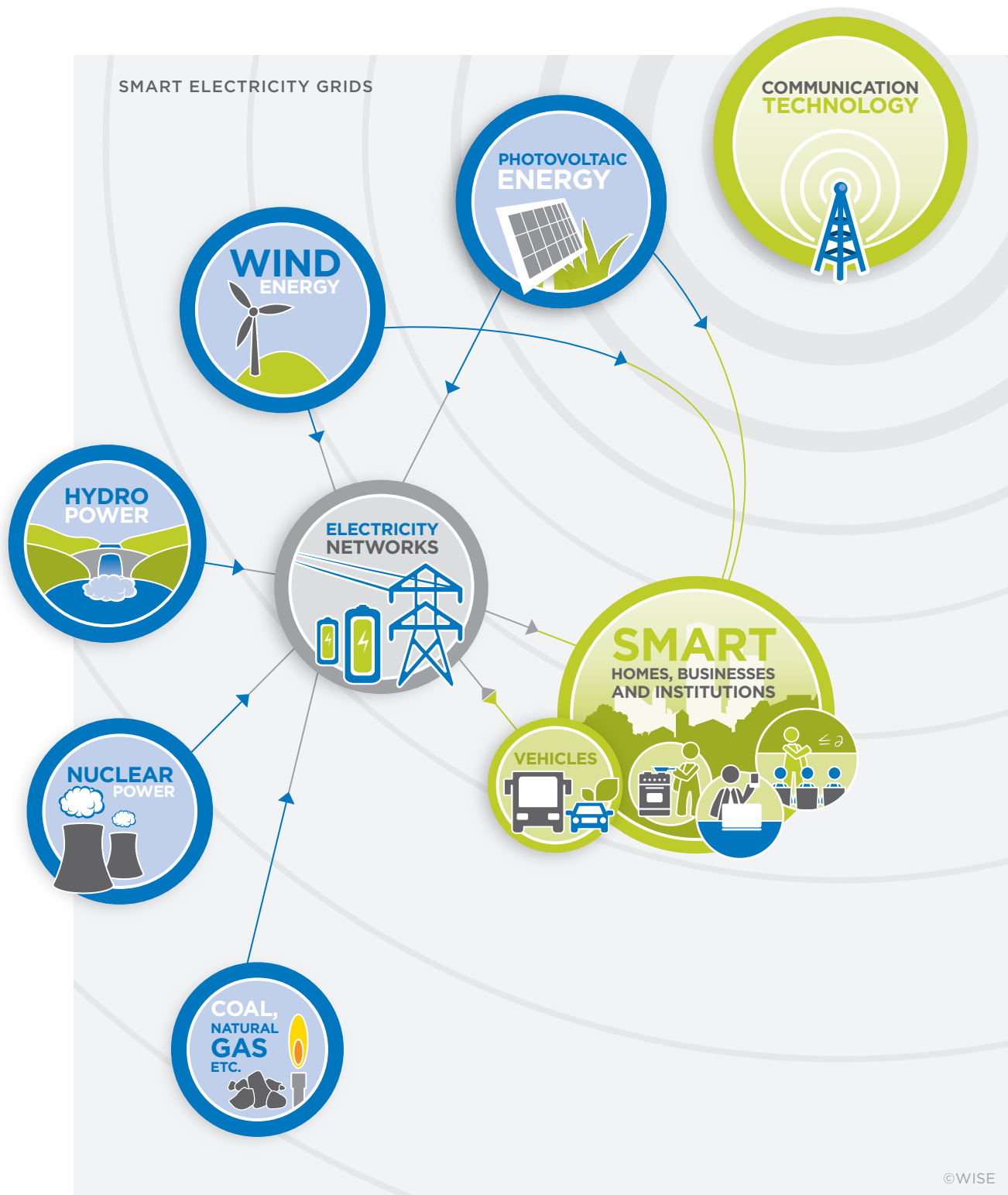


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## INTEGRATED

**ENERGY FLOW:** Smart Energy Networks link different sources of energy, delivery systems and storage systems. As a result, smart homes, businesses and institutions can choose the most efficient way to meet their needs for electricity, heating and cooling and transportation, choosing the best form of energy at any given moment. As new forms of energy and energy technology are developed, they can be integrated into the network.

## SMART ELECTRICITY GRIDS

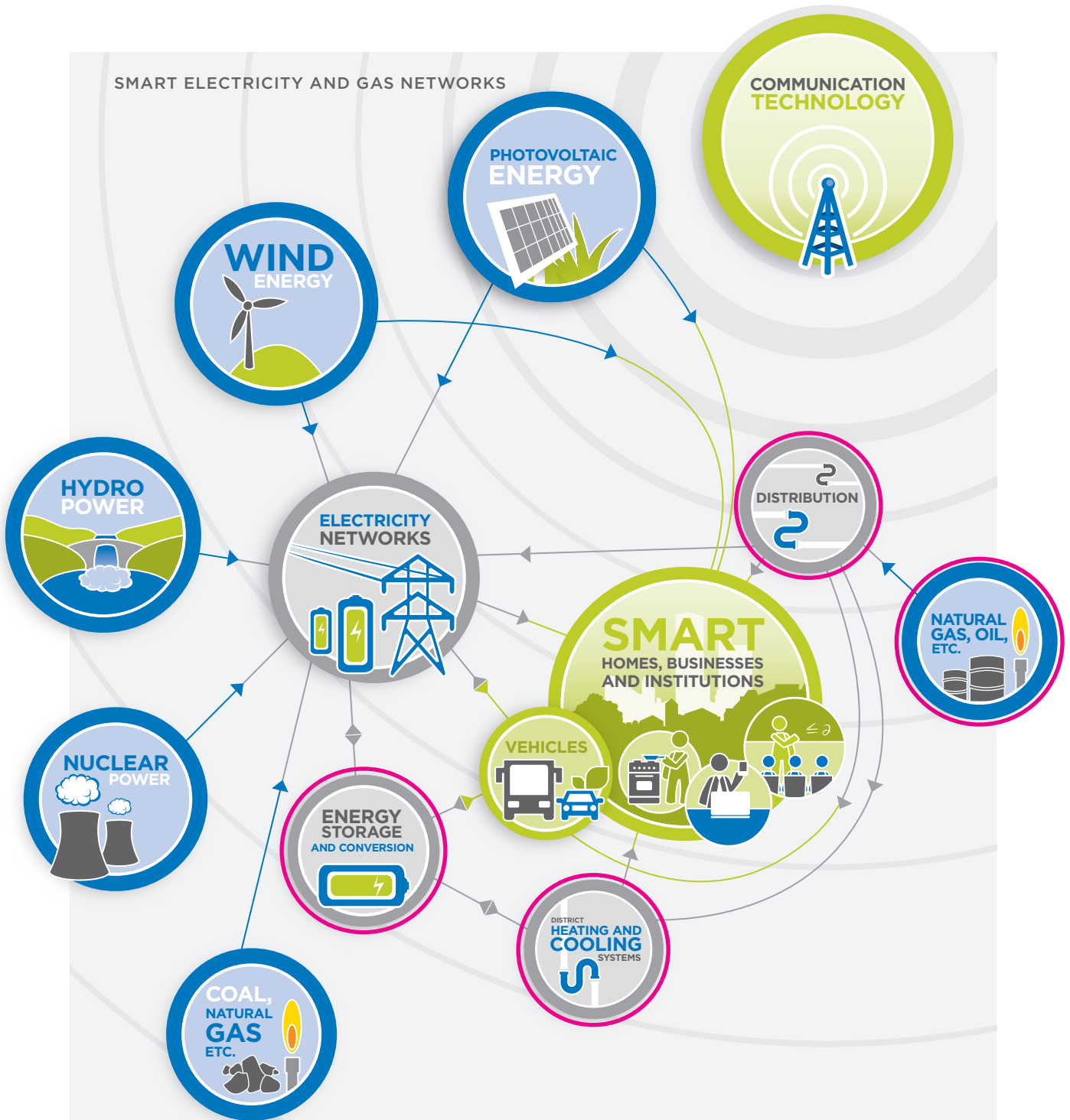


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## PHASE 1

**SMART ELECTRICITY GRIDS** Currently, we have the technology to use electricity more intelligently. Through things like two-way communications technology, meters, switches and advanced software, we can monitor electricity supply and demand in real time and adjust them to maximize efficiency.

## SMART ELECTRICITY AND GAS NETWORKS

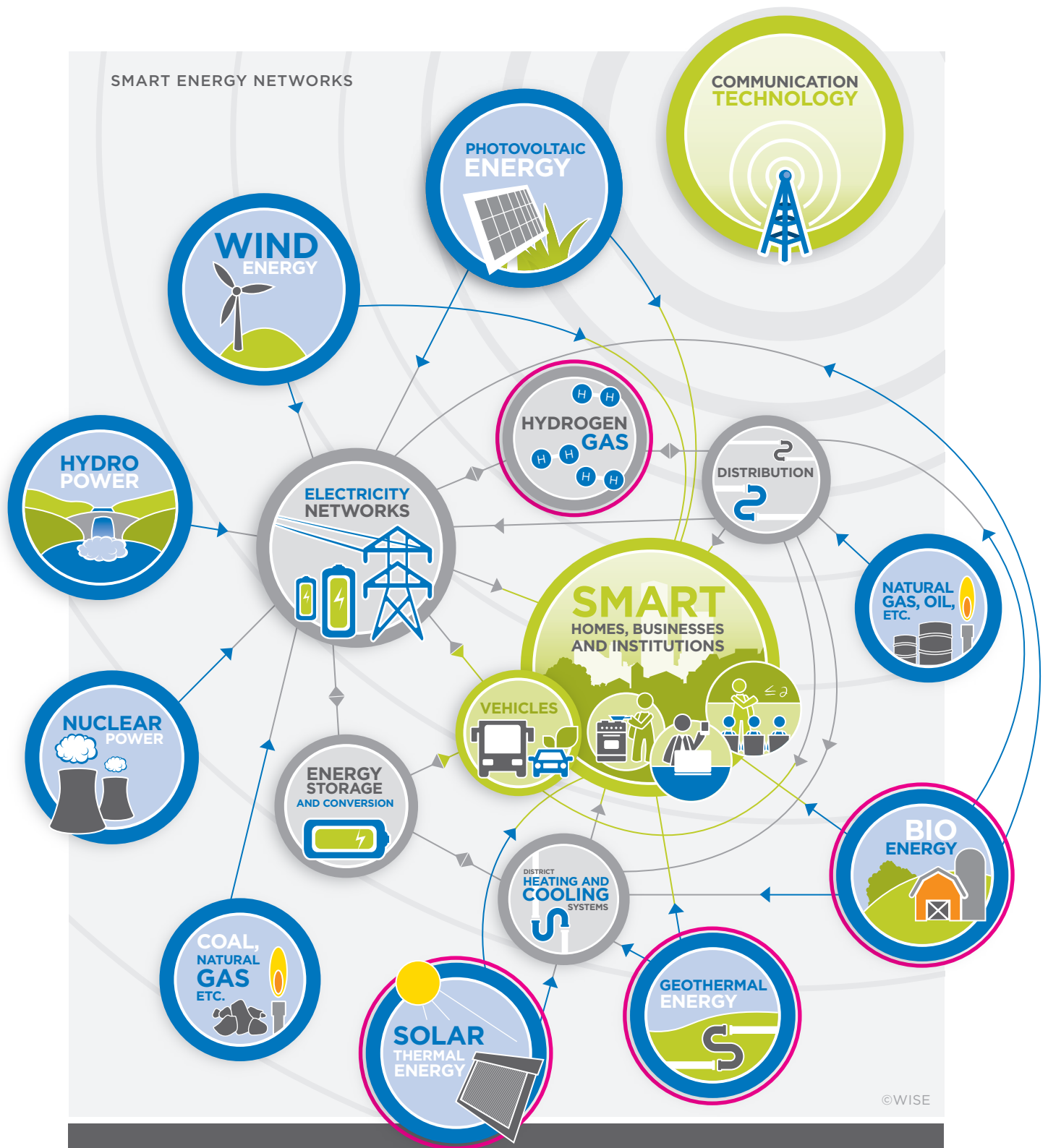


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## PHASE 2

**SMART ELECTRICITY AND GAS NETWORKS** As we move forward, we can use that same kind of smart technology to integrate natural gas networks with electricity networks. With the addition of smart appliances and equipment, users can choose the best form of energy at any given moment.

## SMART ENERGY NETWORKS

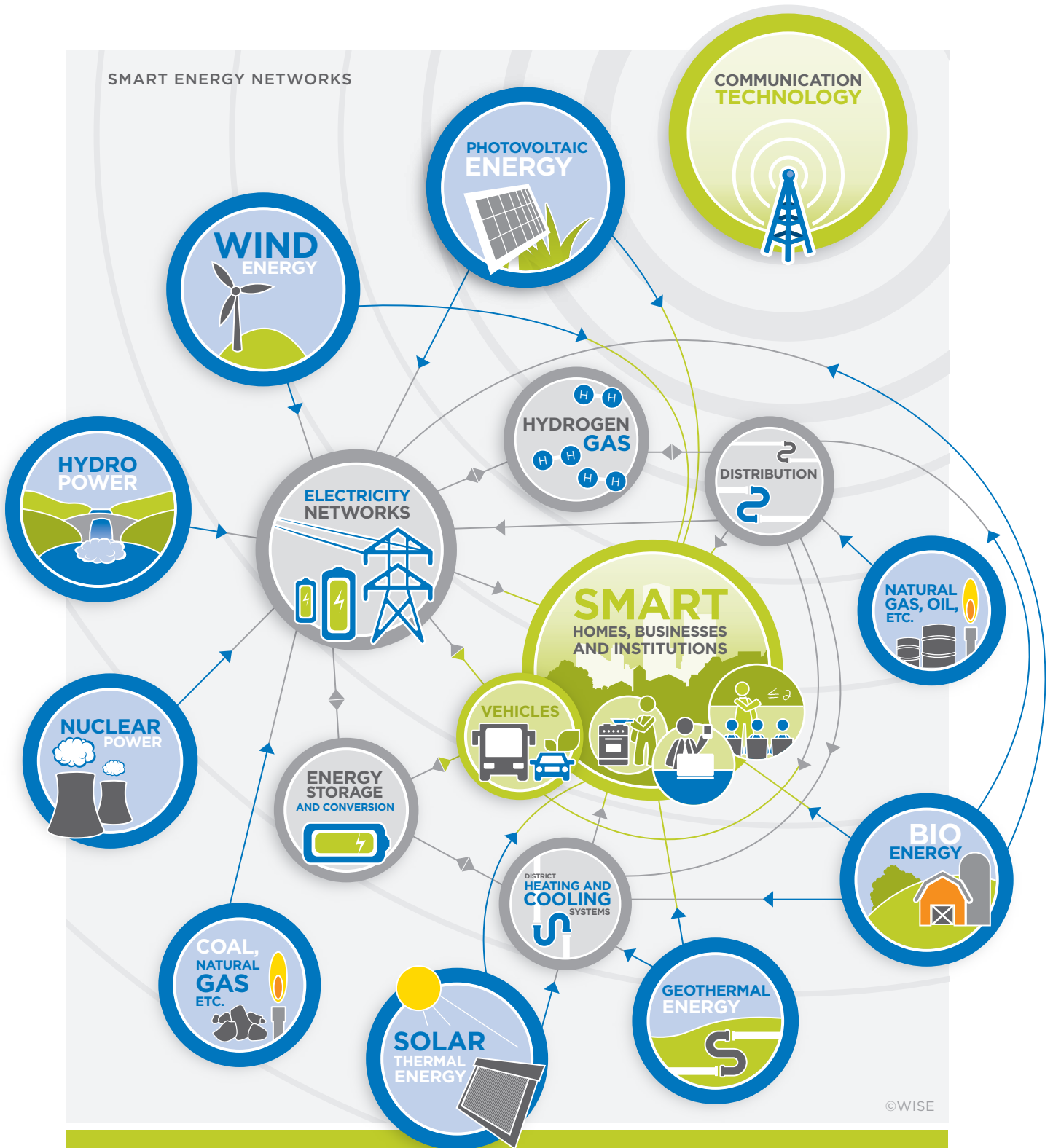


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## PHASE 3

**SMART ENERGY NETWORKS** Ultimately, we can include district heating and cooling networks to create true smart energy networks (SENs). SENs allow end users to shift seamlessly from one energy form to another, creating maximum efficiency at any given moment. While the mix of energy sources may change over time, the principles of a smart, integrated energy network remain the same.

## SMART ENERGY NETWORKS



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## INTEGRATED

**ENERGY FLOW:** Smart Energy Networks link different sources of energy, delivery systems and storage systems. As a result, smart homes, businesses and institutions can choose the most efficient way to meet their needs for electricity, heating and cooling and transportation, choosing the best form of energy at any given moment. As new forms of energy and energy technology are developed, they can be integrated into the network.