

## PA #25 BioRural success stories: Forest debris management and fire prevention by ScivenP

Founded in 2012, Sciven initially focused on research and development of cutting-edge technologies. The company has been at the forefront of small-scale, low-temperature cogeneration for electrical energy by offering unique solutions to the European market. Sciven's biomass-fueled thermal centrals, ranging from 150 to 500 kW per boiler, are scalable through unit aggregation. The company provides comprehensive engineering solutions to meet clients' thermal and electric energy needs, emphasizing cogeneration and biomass-fueled thermal centrals. The product lineup also includes various equipment like heat pumps and boilers for optimized energy efficiency.

The breakthrough concept thrived on reducing energy consumption costs, an idea that won a prize propelling them into entrepreneurship. Navigating challenges, Sciven pivoted from domestic micro cogeneration to a larger-scale solution using biomass-fueled boilers. With external partners, they reshaped their strategy, launching their own line of boilers and ensuring a steady biomass supply chain. The product, unveiled in 2019, champions reduced energy expenditure while decarbonizing and offers complete energy services, encompassing fuel logistics, equipment operation, and remote management platforms.

Sciven embraces a circular model, from designing cogenerators to providing comprehensive sustainable energy assistance. Focused on biomass, it integrates supply, operation, and maintenance, fostering a resilient and sustainable energy economy. Diffusion of this technological circular solution occurs through network dissemination, project participation, conferences, and fairs. Persuading skeptical consumers with credibility-building measures, especially in implementing sustainable biomass supply chains is key to access public entities, hotels, industries, and energy communities.

Sciven's solution, with a practical implementation approach, is highly replicable. The modular design allows easy adaptation to different energy needs and infrastructures. Moreover, the emphasis on local partnerships and community engagement facilitates smooth integration into various geographical contexts.

The journey for Sciven began with research, winning an entrepreneurship contest, and integration into an acceleration program. With guidance from experienced teachers, they initially produced prototypes for domestic use but strategically scaled-up and started using biomass as fuel, developing a line of boilers.

Facing challenges, Sciven initially assessed the practicality of energy consumption and the dynamic industry landscape demanded constant reassessment of their solution. Generating income from biomass-fueled boilers, along with ensuring production and maintenance, was crucial for ensuring a sustainable biomass supply chain.

