

Why We Are Critical

The people of Rain CII take great pride in the critical role we play in the production of one of the world's most important materials – aluminum. With an annual capacity of 2.4 million metric tons of calcined petroleum coke (CPC), Rain CII is one of the world's largest producers of CPC. We in fact account for approximately 8% of the global CPC market. Without CPC, there is no chemically or economically viable means for producing aluminum.

Without aluminum, some of the most essential elements of our society are not possible – such as high-tension electrical wire for energy transmission and aircraft for commercial flight. Simply put, Rain CII is a key player in the production of some of the daily staples of our society – staples that can easily be taken for granted.

We also take pride in the positive ways in which we affect our environment. Rain CII is an example of industrial recycling on the largest scale. We convert green petroleum coke (GPC), a byproduct of the oil refining process, into dense and pure CPC carbon – which is essential to the aluminum smelting process. Our calcining kilns produce a tremendous amount of waste heat, which we are now capturing in energy co-generation systems to produce steam and electricity. We are actively continuing our investment in heat capture across our network.

Rain CII is the critical link between a refinery byproduct and the production of aluminum.

Consider these important environmental facts about aluminum:

- The increased presence of aluminum in automobile manufacturing has correspondingly reduced the amount of steel, and therefore made cars lighter. For the average automobile, this use of aluminum removes 20kg of CO₂ emissions, and 300 gallons of gasoline over the life of the vehicle.
- The increased use of aluminum in planes, trains, and automobiles is projected to make the entire aluminum industry greenhouse gas neutral by the year 2025.
- 70% of the aluminum ever produced is still in use, lowering the weight of autos, structures and transmission lines, reducing energy use and helping support a better environment.

Rain CII is committed to our partners in the aluminum industry, to our role in the bright and dynamic future of this critical resource – and to our role as a resourceful energy-conserving industrial material producer and energy recycler.

Without CPC, there is no chemically or economically viable means for producing aluminum – one of the most environmentally important materials in the world.