



# CR-Enviro Newsletter

Vol 5.0

ENGINEERING SOLUTIONS FOR OUR ENVIRONMENT, INDUSTRY AND COMMUNITY

NEWSLETTER, JUNE 2017



# GREEN TECHNOLOGY

## **CR-Enviro Receives Two Certification for Green Technology from Ministry of Forestry and Environment of Indonesia.**

As the month of June coming, we are celebrating 5<sup>th</sup> of June as World Environment Day (Hari Lingkungan Hidup Sedunia). The month of June also in line with Ramadhan month for Moslem which is known as holy month. We are grateful that to this day, our company have accomplished astounding performance and have recognized as one of the leader for EPC Contractor for Hazardous Waste (Limbah B3) treatment plant in Indonesia. CR-Enviro always try to keep its value in delivering quality products and services to the customer.

On this month, CR-Enviro have managed to successfully receive two certifications from Ministry of Forestry and Environment (KLHK) for green technology, both for our Medical and Hazardous Solid Waste Incinerator and Electrocoagulation – Waste Water Treatment Plant (WWTP). Both technology have been proven and tested by a committee panel team of technical expert involving scientist, government bureaucrat and official, expert from industries, expert from related association and other high caliber professional in the field. The result of the assessment being published and recognized by the Ministry of Environment and Forestry of Indonesia that our Reciprocating Grate Incinerator and Electrocoagulation WWTP have been verified and proven as a green technology / eco-friendly and we have the right to put ecolabel on the product. This registration shall expire within 3 years since the date of issuance. We appreciate the certifications from KLHK and we will do our best to make a world a better place to live as a part of our 3P commitment: Profit, People and Planet.



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## CR-Enviro means Cost Reduction on your Environmental Management.

Cost reduction is the process used by companies to reduce their costs and increase their profits. Depending on a company's services or product, the strategies can vary. Every decision in the product development process affects cost.

One of cost reduction case study happens at one of the largest automotive spare part industry based in Jakarta – Indonesia is having issue with their 12 m3/day waste water treatment plant. Their current traditional treatment utilizing chemical treatment cannot fulfill the local effluent parameter required by the government regulation. The main waste water source comes from electroplating, spray booth paint, machining, coolant, boiler blowdown, tank wash, cooling tower waste, degreasing and domestic waste water. The substitution of conventional chemical system into advanced electrocoagulation waste water system fabricated by CR-Enviro have created significant cost reduction within their daily and monthly operating cost. The company have recorded cost reduction rates at almost 26% compared to previous conventional technology. Below is the comparison table result which is submitted from our clients based on their monthly record for waste water treatment:

Conventional Waste Water Treatment Plant

Component	Cost	Unit	Vol	Unit	Total	Unit
Chemicals Supplied	4,500	M <sup>3</sup>	288	M3/day	1,296,000	Rp/day
NaOH						
CaO						
PAC						
Caustic						
Polymer						
Sludge Waste Treatment	1,200,000	Ton	4.2	Ton/day	5,040,000	Rp/day
Coolant Waste Treatment	1,400,000	M <sup>3</sup>	1.5	M3/ day	2,100,000	Rp/day
Total Cost				Rp.	8,436,000	/day
				Rp.	253,080,000	/month

Advanced Electrocoagulation Waste Water Treatment Plant

Component	Cost	Unit	Vol	Unit	Total	Unit
Electricity	1,300	Rp/kWH	80	kWH	2,496,000	Rp/day
Chemicals Supplied	1,500	M <sup>3</sup>	288	M3/day	432,000	Rp/day
NaOH						
CaO						
Polymer						
Electrode Replacement	4,800	M <sup>3</sup>	288	M3/day	1,382,400	Rp/day
Sludge Waste Treatment	1,200,000	Ton	1.6	Ton/day	1,920,000	Rp/day
Total Cost				Rp.	6,230,400	/day
				Rp.	186,912,000	/month

Cost Reduction 66,168,000 Rp/Month

% Efficiency 26%

Visit [www.cr-enviro.com](http://www.cr-enviro.com) for more detail information.



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## Quarterly Employee Gathering – Spirit to Achieve 2017 Target!

QUARTER I EMPLOYEE GATHERING  
SPIRIT TO ACHIEVE 2017 TARGET  
PT. CENTRA REKAYASA ENVIRO

**SPIRIT**  
Safety  
People  
Integrity  
Responsibility  
Innovation  
Teamwork



Summer Hills  
Private Villa  
Bandung  
7-8 March 2017



At Centra Rekayasa Enviro, we believe that our most valuable asset is our human resources asset. We have put strong faith that if we took excellent care of our employee, our employee will serve more excellently to both the customer and the company. As a part of employee refreshment and our strategy to create people alignment towards operational and individual performance, CR-Enviro have successfully held a two days employee gathering at Summer Hills Private Villa in Bandung which conducted by 7-8 March 2017. The theme for the event was called “Spirit to Achieve 2017 Target”.

“SPIRIT means Safety, People, Integrity, Responsibility, Innovation and Teamwork. We are here to align this value within our internal core values so that people alignment with the company value and vision and mission can be achieved or even help accelerated towards this year goals” said Dimas, Managing Director of CR-Enviro. “We have full optimism that 2017 will be another great year for both the company and the employee”.

During this two days gathering, the management have added a lot of event to motivate the employee. This includes a teamwork building training, distribution of employee certificate of recognition award which has identified as positive contributor to the company growth, and speech from board of director on strategy on how we can achieve the 2017 goals together. Below are several pictures recorded from the success event:







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## Corporate Social Responsibility (CSR) Activities.

As a part of our Sustainability Development Framework and 3P commitment (Profit, People, Planet), the management of CR-Enviro have committed that the company CSR goal is to become a role model and contribute to the development and prosperity of the Indonesian nation. The company is expecting that the CSR program can give a direct impact in improving the quality of community life and creates a harmony with the surrounding company environment. The CSR priorities include: Education, Health, Economics and Environment. Centra Group is aiming to be the best company in the field of Corporate Social Responsibility (CSR) and Environmentally Friendly Company in Indonesia in by 2022.

Up to Q2 – 2017, CR-Enviro have successfully delivering CSR program to the surrounding community where the company operates. Our HR team is focusing in helping the orphans within both the main office and workshop area and to help these kids gaining their needs for education. By April 2017, the team have visited SD Dewi Sartika, Bandung and gave donations for the children (especially orphans). On May 2017, the company held a monthly gathering at the workshop in Gedebage – Bandung, and we distribute donations for the local orphans as it will enters the Holy Ramadhan month by June.

“It has been our philosophy and it is within our blood, that CSR is a must, and we will do more CSR program in the future and we expect to develop our own Centra Group Foundation within the next few years so we can distribute the CSR program through our Foundation in more professional matter” said Dimas – Managing Director of CR-Enviro.

The dreams of Centra Group Foundation will becoming a group dream that will be achieved through hard work of all employee, BOD and all shareholder of the company, and also most importantly the contribution of our happy customer.