










# BioGas /Gobar Gas Systems

Turn Green Agri Waste & Gobar into Gas – Run your Kitchen- Car - Generator Boiler Furnace

Call for Free Advises: Engr. Khalid Saeed 0300-8287009 & M. Amin - 0302-8287009 [cogenpak@gmail.com](mailto:cogenpak@gmail.com)

|   |   |
|---|---|
|    |    |
|    |    |
| <p>SSGC Gas LHV = 900 Btu/Ft3 (9 KWth/M3)<br/> CNG LHV = 900 Btu/Ft3 (9 KWth/M3)<br/> LPG LHV = 2,750 Btu/Ft3 (13.6 KWth/Kg)<br/> Bio Gas LHV = 600 Btu/Ft3<br/> CNG = 68 Rs/Kg today Dec 2013<br/> Gobar Rate = 60 Paisa /Kg<br/> Gobar = 600 Rs/Ton</p>   |   |
| <p>Gobar Fedded = 500 Kg/day (1/2 Ton)<br/> Bio Gas Produce = 50 M3 bg /Day<br/> Approx 27 Kg bg = 50 M3 bg<br/> (50 M3bg x 0.55 Kg/M3 bg density)<br/> (900:600 = 3:2 = 68 Rs cng : 45 Rs. bg)<br/> = 27 kg bg x 45 Rs. bg/kg = 1,215 Rs/Day<br/> + Khaad = 450 Rs =Total income =1,665 Rs/day</p> |  |
| <p>Invest Pay Back : Gobar Gas Plant Cost = 7,50,000<br/> Gas Bill saving= 1,665 Rs/Day<br/> Investment Pay back = 20 Month approx<br/> ( less then 2Yr.)</p>   |  |



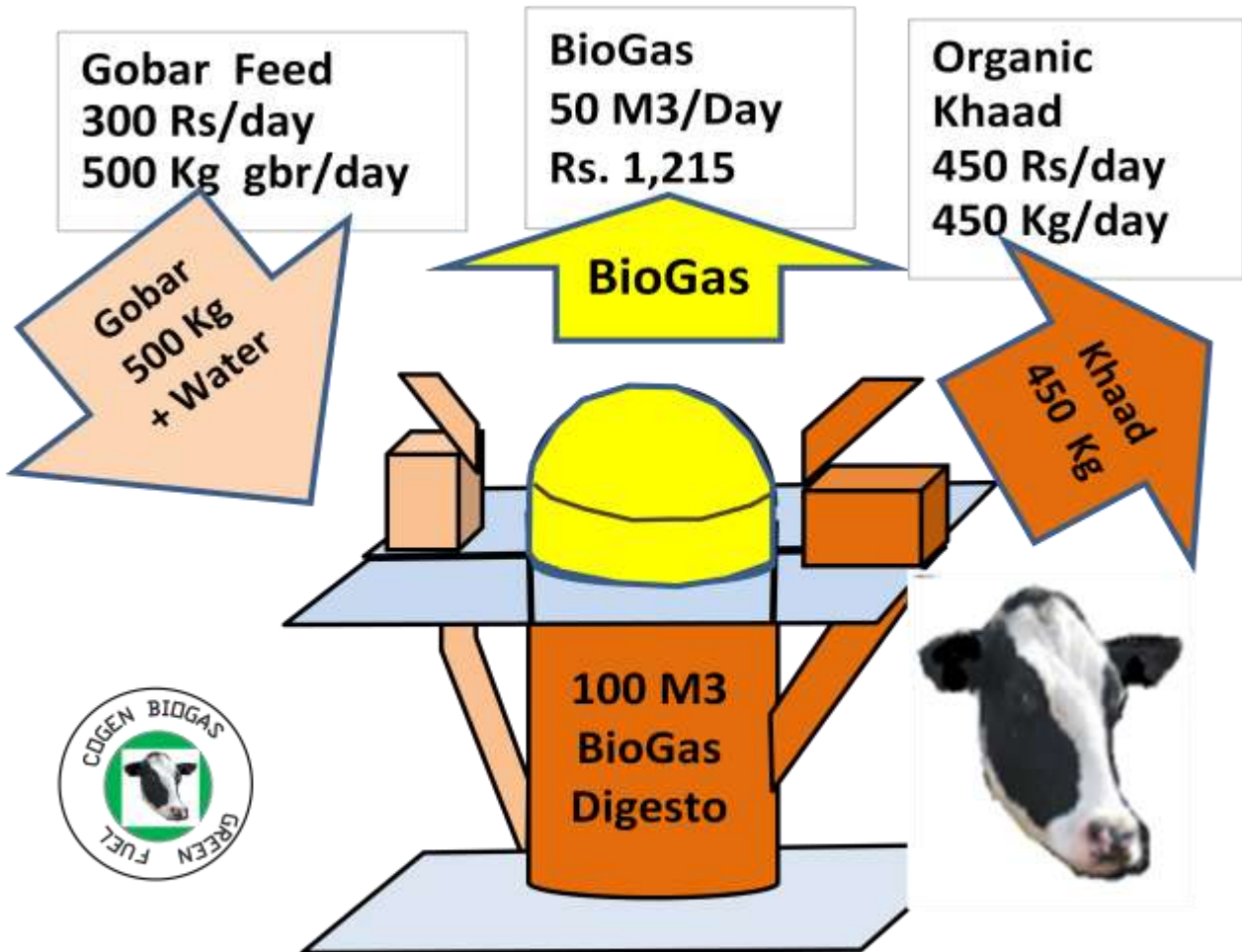


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Generate in house Natural Gas (Methan) , Run You Existing Gas Engines, Run Your Boilers, Furnaces, Foundries, Tandoor< Bakery,



**Invest:7,50,000/- Payback 120 Month earn Rs. 1,665/Day**

**Electric Power rate @ Rs.3/unit , Save 22 Kg LPG, Save 30 M3 Natural Gas, Save 28 Ltr Diesel/day, invest = 7,50,000 /- Rs Payback 20 Month = Profit 1,665 Rs/day Run Kitchen -Tandoor -**

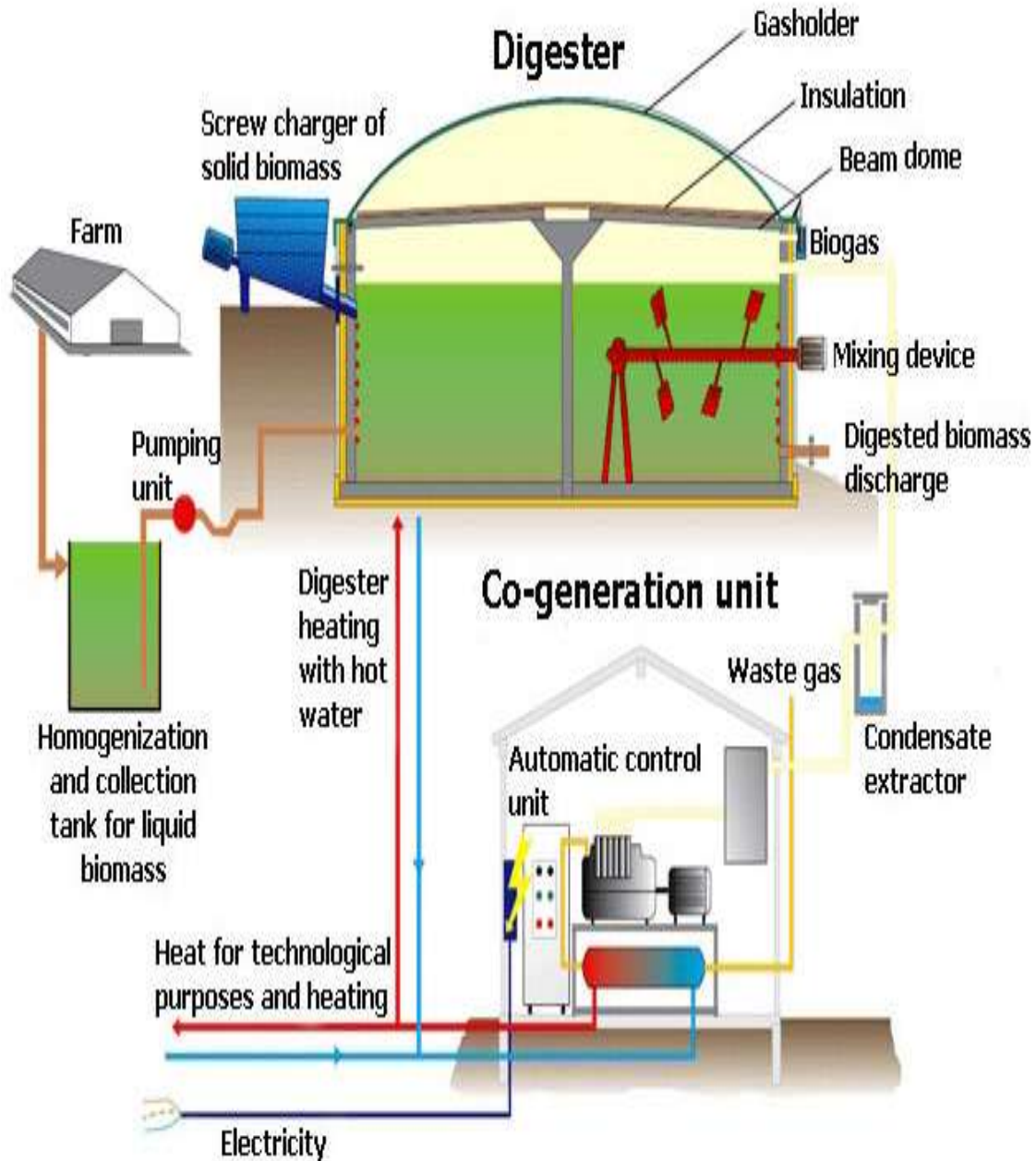




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**Note: The above costing is all MANUAL operations, this photo shows semi automatic for demonstration ,with optional advance attachments (selectable /optional)**





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| POPULATION - BIOGAS PLANTS IN PAKISTAN  |                               |                |                                   |                  |          |
|---|-------------------------------|----------------|-----------------------------------|------------------|----------|
| Biogas: Residential, Commercial Gas and Power plant Row-Material Animals dung, Bards Waste organic material and Expire foods etc. |                               |                |                                   |                  |          |
| #   | OWNER NAME                    | PLANT CAPACITY | PLANY LOCATION - CITY PROVINCE    | APPLICATION      | YEAR     |
| 1   | Mr. Jawaid & Hanif Form       | 30m3/15 m3     | Village LATE, Mirput Sakro SIND   | kitchen          | JUL 2013 |
| 2   | Mr. Jhangeer form             | 100m3 /50m3    | Near Meman Goth Karachi.SIND      | Genset           | JUL 2013 |
| 3   | Mr. Mirza Aamir               | 85m3 /42m3     | Abdul hakim B/W MULTAN-FSLBD      | Engine Tube well | JUL 2013 |
| 4   | Mr. Dawood khan               | 100m3 / 50m3   | Abdul Hakim B/W MULTAN-FSLBD      | Engine Tube well | JUL 2013 |
| 5   | Mr. Farzan Khan               | 120m3 /60m3    | SURJANI TWN NK KARACHI.           | GENSET           | JUL 2013 |
| 6   | Mr. Muhammad Zubair           | 75m3 /37m3     | Sargodha chaway wala Punjab.      | Engine Tube well | JUL 2013 |
| 7   | Mr. Qaiyum & M Qasim          | 75 m3 /37 m3   | Mahrab Data Bloch Bhawalpur       | Engine Tube well | JUL 2012 |
| 8   | Mr. Sardar Rasheed            | 70 m3/ 35m3    | Menyanwali Qurashiyan-R.Y.Khan.   | Engine Tube well | JUL 2012 |
| 9   | Mr. Asjad Ahmed               | 85m3 / 42m3    | Mureed k area Lahor Punjab.       | Engine Tube well | JUL 2012 |
| 12  | Mr. Malik Basheer             | 80m3 / 40m3    | Bhoray wala wehari Punjab.        | Engine Tube well | JUL 2012 |
| 13  | Mr. Seyd Ali Raza             | 80m3 / 40m3    | chicha watni Punjab.              | Engine Tube well | JUL 2012 |
| 14  | Mr. Mian Khuda yar wtto       | 50m3/ 25m3     | Pakptan Punjab.                   | Genset           | JUL 2012 |
| 15  | Mr. Mian Reyasat wtto         | 80m3 / 40m3    | Saheywal khoniyaN Punjab.         | Engine Tube well | JUL 2012 |
| 16  | Mr. Rana M Sadiq              | 80m3 / 40m3    | Kabeer wala Punjab.               | Engine Tube well | JUL 2011 |
| 17  | Mr. Salamn Butt               | 85m3 /42m3     | Rawat near Rawalpindi Punjab.     | Engine Tube well | JUL 2011 |
| 18  | Mr. Haji Hidayt ullah         | 40m3 /20m3     | Janda wala Punjab.                | Genset           | JUL 2011 |
| 19  | Mr. Sewa Ram                  | 70m3 /35m3     | KHAN PURE                         | Engine Tube well | JUL 2011 |
| 20  | Bridgr. Rtd. Shafeeq          | 30m+30m /30m3  | Bhkkar Hospital Punjab.           | Genset           | JUL 2010 |
| 21  | Mr. Ch. Zulfiqar Ali          | 40m3 / 20m3    | Bhkkar Jhang mor Punjab.          | Genset           | JUL 2010 |
| 22  | Mr. Yuosuf Fauji              | 9m3 / 04m3     | Sargodha mochi wali saheawal      | Tandoor          | JUL 2010 |
| 23  | Mr. Ilyas Qureshi -Forms      | 40m3 /20m3     | Sargodhd Punjab.                  | Genset           | JUL 2010 |
| 24  | Dr. Arif Baloch               | 70m3 / 35m3    | Goth Mehrab BHAWAL PURE           | Genset           | JUL 2009 |
| 25  | Dr. Arif Baloch               | 70m3 / 35m3    | Goth Mehrab BHAWAL PURE           | Genset           | JUL 2009 |
| 26  | Worl Wild Life (WWF) Projects | 60m3 / 30m3    | All funded for Punjab Rural Areas | Domestic Use     | JUL 2009 |
| 27  | Mr. malik Razzak              | 85 /42 M3      | Jehllum Punjab                    | Domestic Use     | Jun-11   |
| 28  | Mr. Ahmed Nawaz               | 85 / 42 M3     | Samundri Faisalabad               | Engine+home      | Jul-11   |
| 29  | Mr. Lal Khan                  | 90 /45 M3      | Sukhay kay Interchange            | Engine+home      | Jul-11   |





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|   |                         |   |                              |               |               |
|---|-------------------------|---|------------------------------|---------------|---------------|
| 30  | Mr. Zulfiqar Ali        | 40 / 20 m3  | Bhakkar Jhang More Lhr       | Engine+home   | Jul-11        |
| 31  | Mr. Muhd Zubair         | 75 / 35 M3  | Sargodha chaway wala Punjab. | Engine+home   | Jul-11        |
| 32  | Mr. Yousuf Qureshi Farm | 40 /20 M3   | Sakro City Thatta            | Engine+home   | Jul-11        |
| 33  | Mr. Ch. Jawaid Iqbal    | 75 / 35 M3  | Iqbal abad R.Y.Khan          | Engine+home   | Jul-11        |
| 34  | Mr. Abdul Ghani         | 40 /20 M3   | Baila Liaquat pur R.Y.Khan   | Engine+home   | Jul-11        |
| 35  | Mr. jawaid farm House   | 10 / 5 M3   | Hawks bay Road Khi           | Engine+home   | Jul-11        |
| 36  | Mr. Jalil Rahi          | 15 / 7 M3   | Liaquat Pur R.Y. Khan        | Engine+home   | Jul-11        |
| <b>TOTAL PLANTS INSTALLED 2013</b>            |                         |   |                              | <b>750 NO</b> | <b>PLANTS</b> |
| <b>Muhammad Amin</b>                          |                         | <b>Engr. Khalid</b>                               |                              |               |               |
| <b>Project Engineer Installtions</b>          |                         | <b>Saeed</b>                                      |                              |               |               |
| <b>Phone: 0302 8287009 cogenpak@gmail.com</b> |                         | <b>BioGas Designer - Principal Engineer CoGen</b> |                              |               |               |
| <b>0302 8287009 cogenpak@gmail.com</b>        |                         |   |                              |               |               |

