MAKING THE DIFFERENCE
ASSURING THE SAFETY, QUALITY AND SUSTAINABILITY OF RENEWABLE ENERGY
At SGS, we have extensive experience in testing and inspection services for solid biomass – for clients delivering to industrial users – for power generation, as well as commercial and residential users – for heat generation.

We are able to provide solutions along the entire value chain to help you ensure transparency, demonstrate compliance, improve quality and maximize profits.

**PRODUCTS COVERED**
Across the full range of biomass and biofuels our agriculture, forestry and mineral experts inspect and test materials including:
- Wood chips
- Wood pellets
- Briquettes
- Roundwood
- Palm kernel shells (PKS)
- Solid recovered fuel (SRF)
- Refuse-derived fuel (RDF)

**TESTING SERVICES**
We offer a broad range of testing and analytical services for solid biomass delivering accurate, cost effective analysis in accordance with regional, national, and international standards.

Testing services include:
- Proximate analysis
- Ultimate analysis
- Calorific value
- Trace and heavy metals
- Ash fusion temperatures
- Mineral ash analysis
- Chlorine, fluorine
- Particle size distribution
- Bulk density
- Mechanical durability
- Biomass content

As specialists in this field, our biomass and biofuel testing facilities have a suite of specific tests registered to ISO/IEC 17025. Our qualified staff operate with state-of-the-art instrumentation and quality control procedures allowing us to provide you with complete, accurate and timely analysis.

**INSPECTION SERVICES**
At every stage of the value chain, our services are designed to protect the safety, integrity and quality of your products. To facilitate this our global network of inspectors conduct:
- Sampling (ISO 18135:2017)
- Draft survey
- Cargo superintendence
- Stockpile assessments
- Volumetric assessments
- Bias testing
- MSS design and installation
- Fumigation
- Gas free

**CERTIFICATION SERVICES**
Demonstrating and proving the quality, quantity, origin and sustainability of biomass is a legal requirement for many markets. Our global network of auditors offers audit, certification and verification against standards including:
- Forest management certification (FSC, PEFC, SFI)
- Chain of custody certification (CoC)
- EN Plus certification
- Customized audit solutions
- Sustainability report assurance
- GHG assessments
- Carbon credit certification
- Environmental impact assessments

**UNRIVALLED EXPERTISE**
Our experts have been involved in every aspect of biofuel production since the 1990s. We monitor all aspects of the biomass and biofuel supply chain, from forest and farm to fuel. Both in the field and in the laboratory, we have combined expertise to deliver quality, efficiency and transparency throughout the custody chain.

**TECHNOLOGY & INNOVATION**
Innovation is at the heart of our business. New technologies deliver knowledge, insight, transparency and efficiency for our customers.

**Standardized Inspection Reporting (SIR)**
Standardized data entry to SGS’s inspection reporting platform ensures delivery of quality reports that are the same the world over. It reduces duplication of effort, streamlines communication and reduces turnaround time for reporting – in one secure cloud-based system.

**SGS e-documents**
Receive your electronic reports and certificates by email. SGS delivers your transactional documents quickly and securely. In addition, you can authenticate certificates on our secure website.

**SGS BENEFITS**
- Global network
- State-of-the-art laboratories
- Rapid turnaround time
- Technical competence
- Customized service

**CONTACT US**
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SGS Agriculture & Food

Solid biomass refers to wood from forestry or wood processing, energy crops, residues from agricultural harvesting or processing, food waste, industrial waste and by-products from manufacturing.

The most common form of solid biomass is wood pellets – low moisture content biomass fuel, able to be transported and stored efficiently, whilst meeting strict quality and sustainability requirements of global renewable energy markets.