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J@TI UNDIP : JURNAL TEKNIK INDUSTRI (p-ISSN 19071434; e-ISSN 25021516; <http://ejournal.undip.ac.id/index.php/jgti>) adalah jurnal yang terbit 3 (tiga) kali dalam setahun yaitu di bulan Januari, Mei dan September. Redaksi menerima tulisan ilmiah dan hasil-hasil penelitian, kajian ilmiah, analisis dan pemecahan permasalahan di bidang Industri yang erat hubungannya dengan bidang Ilmu Teknik Industri. Naskah yang diterima akan dikilas (review) oleh Mitra Bestari untuk dinilai substansi kelayakan dan teknis penulisannya. Keputusan diterima atau tidaknya suatu tulisan ilmiah di Jurnal ini menjadi hak dari Dewan Penyunting berdasarkan rekomendasi dari Mitra Bestari

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Jurnal Teknologi dan Industri Pangan (JTIP) is an official publication of the Indonesian Food Technologist Association (IATF) in collaboration with the Department of Food Science and Technology, Faculty of Agricultural Technology and Engineering, Bogor Agricultural University. The on-line version of the journal can be assessed at <http://journal.ipb.ac.id/index.php/jtip>; <http://patpi.or.id/>

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For further information and correspondence, please contact the secretariate of Jurnal Teknologi dan Industri Pangan, Department of Food Science and Technology, Faculty of Agricultural Technology and Engineering, Bogor Agricultural University, Kampus IPB Darmaga Kotak Pos 220, Bogor 16002; Phone/Fax: (0251) 8626725; E-mail: jurnaltip@yahoo.com

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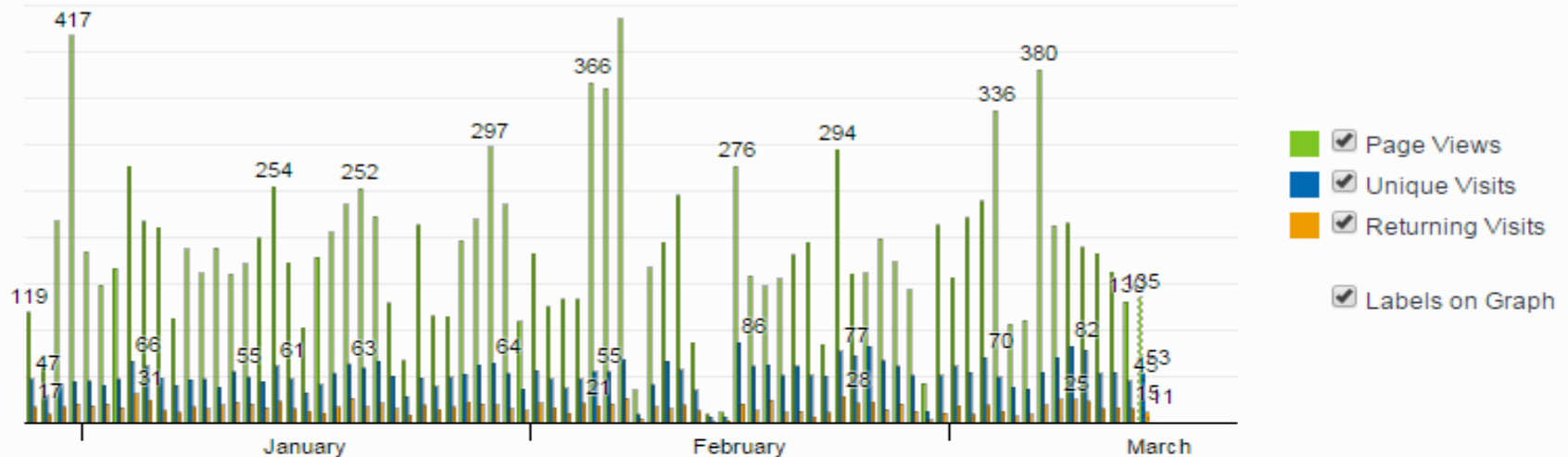
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A New Method for Horizontal Axis Wind Turbine (HAWT) Blade Optimization

**Mohammadreza Mohammadi, Alireza Mohammadi,
Saïd Farahat**

[DOI: 10.14710/ijred.5.1.1-8](https://doi.org/10.14710/ijred.5.1.1-8)

Abstract

Iran has a great potential for wind energy. This paper introduces optimization of 7 wind turbine blades for small and medium scales in a determined wind condition of Zabol city, Iran, where the average wind speed is

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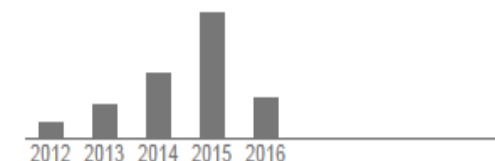
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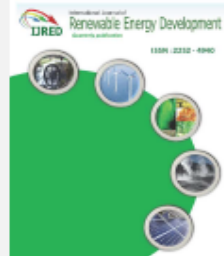




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Design and Development of Prototype Cylindrical Parabolic Solar Collector for Water Heating Application

Kulkarni Hrushikesh Bhujangrao^{1a*}

^a*School of Mechanical and Building Sciences, VIT University, Vellore-632014 (TN), India*

ABSTRACT: Concentrating collectors absorb solar energy and convert it into heat for generating hot water, steam at required temperature, which can be further used for solar thermal applications. The developing countries like India where solar energy is abundantly available; there is need to develop technology for harnessing solar energy for power production, but the main problem associated with concentrating solar power technology is the high cost of installation and low output efficiency. To solve this problem, a prototype cylindrical parabolic solar collector having aperture area of 1.89 m^2 is designed and developed using low cost highly reflecting and absorbing material to reduce initial cost of project and improve thermal efficiency. ASHRAE Standard 93, 1986 was used to evaluate the thermal performance and it was observed that this system can generate hot water at an average temperature of 50°C per day with an average efficiency of 49% which is considerably higher than flat plate solar collectors. Hot water produced by this system can be useful for domestic, agricultural, industrial process heat applications.

Keywords: cylindrical parabolic solar collector, solar energy, industrial process heat, solar thermal application.

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1. Introduction

Increasing Population, urbanization and industrialization demands energy at higher rate. India is facing serious problem of meeting adequate energy supply to customer at reasonable cost (Garg 2012; Kumar et al. 2010). India's energy requirement and forecast is as shown in Table 1. Demand of energy means electricity in industrial, agricultural and domestic sector is higher than other. According to Integrated energy policy report 2006, India has to maintain 8 to 10 % economic growth rate to solve the issue of poverty and development goals. To maintain sustained growth of 8% till 2031, primary energy supply and electricity supply needs to be increased by 3 to 4 times and 5 to 7 times respectively than current rate of energy consumption. Energy in the form of electricity is generated in thermal power plant using conventional energy sources like coal, natural gas;

crude oils as fuel, but availability of these sources are limited and may not support the process of sustainable development. Use of Fossil fuels for power production causes environmental pollution, global warming, ozone layer depletion and human health hazards (WEO 2013).

Tabel 1
India's energy demand and future scenario (IEP, 2006)

Sectors	2006-2007	2050
	TWh/yr	TWh/yr
Domestic	121	994
Commercial	44	283
Industry	257	1202
Transport	12	532
Agriculture and other	133	156
Total	567	3168

Sources: IEA, 2009b; IEA, 2010a; IEA, 2009c

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ABSTRAK

Pembangunan perumahan merupakan salah satu upaya pemenuhan kebutuhan akan tempat tinggal. Kawasan perbukitan menjadi sasaran pengembang untuk mendirikan suatu hunian dengan potensi view yang menarik. Sesuai Kebijakan Peraturan Menteri Pekerjaan Umum, Nomor: 05/PRT/M/2008 Tentang Pedoman Penyediaan dan Pemanfaatan Ruang Terbuka Hijau di Kawasan Perkotaan, seharusnya menjadi acuan bagi para pengembang dalam penyediaan RTH untuk perumahannya. Namun, yang terjadi saat ini, RTH yang disediakan oleh developer (pengembang) perumahan justru sudah banyak dirubah oleh pemilik rumah, baik itu berubah fungsi maupun berubah bentuk, sehingga ruang terbuka hijau yang disediakan pengembang sudah tidak sesuai lagi dengan desain awal perumahan. Studi kasus penelitian dilakukan di Perumahan Syailendra, Villa Pinus dan Villa Krista yang terdapat di Daerah Gedawang, Kota Semarang. Hasil penelitian membuktikan bahwa terjadi perubahan pada RTH di tiga lokasi studi kasus namun mayoritas masih sesuai dengan peraturan yang ada. Faktor luas perkerasan, lamanya masa huni, serta adanya reward dan punishment akan berpengaruh terhadap jumlah pepohonan yang ada. Reward dan punishment dapat digunakan sebagai tools yang akan menjaga kelangsungan RTH di kawasan perumahan di daerah perbukitan.

Kata Kunci : Perumahan, Peraturan Pemerintah, RTH

PENDAHULUAN

Indonesia merupakan negara yang jumlah penduduknya terus meningkat. Hal ini menyebabkan kebutuhan akan tempat tinggal juga meningkat. Hal ini menjadi negatif dengan rusaknya system tata ruang kota dan berakibat rusaknya lingkungan, hal

ini bertolak belakang dengan teori Adisasmita (2010) yaitu tujuan pembangunan permukiman adalah meningkatkan tersedianya sarana rumah

menyediakan kebutuhan akan tempat tinggal justru menjadi negatif dengan rusaknya system tata ruang kota dan berakibat rusaknya lingkungan, hal ini bertolak belakang dengan teori Adisasmita (2010) yaitu tujuan pembangunan permukiman adalah meningkatkan tersedianya sarana rumah



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